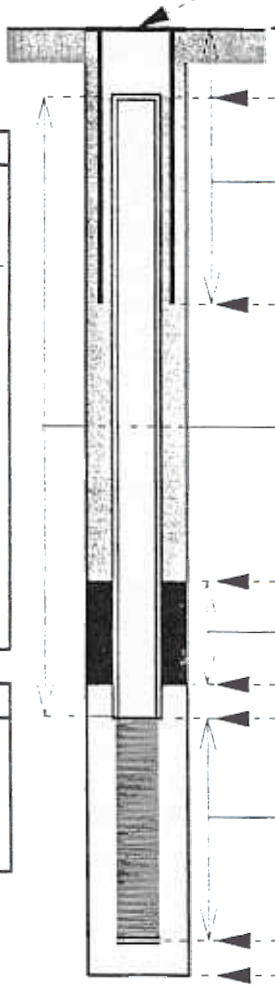
WELL/PIEZOMETER CONSTRUCTION DIAGRAM

Project Name/Number:	Well/Piezometer Number:
C3MILL	WC-195
Date of Completion:	**Inspector:**
12-8-94	Jackie Heitczman
Surveyed Top of Riser Elevation:	**Datum:**
661 ft	Mean Sea Level



	Depth	Elev.
Top of Casing	0	
Ground Elevation	0	
Top of Riser	4"	
0 ft		
Bottom of casing	1	
0 ft		
Top of seal	1	
0 ft		
Top of Screen pack	2	
Top of Screen	3	
0 ft		
Bottom of screen	13	
Bottom of borehole	17	

Materials Used

Casing: ~~2"~~ steel casing

Riser Pipe: 3 feet schedule 40 PVC, 2"

Screen: 10 feet schedule 40 PVC screen, 10 slot, 2"

Grout: Portland cement/ Bentonite

Seal: Bentonite pellets

Screen Pack: Sand No 1

Borehole Specifications

Diameter of Borehole: 4.25 ID

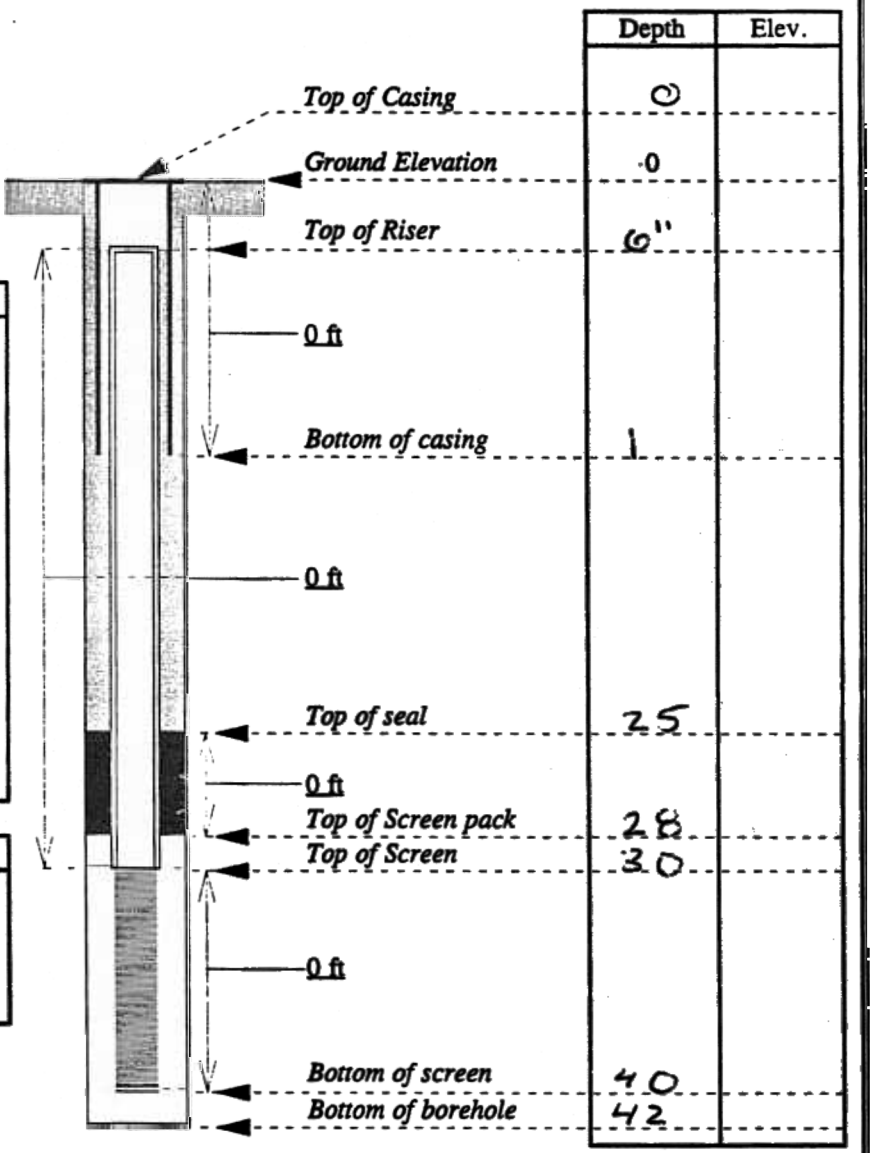
Drilling Method: Hollow stem augers

Depths and Elevations in feet (not to scale)

Notes:

WELL/PIEZOMETER CONSTRUCTION DIAGRAM

Project Name/Number: Hartford Army Engine Plant C3M11L	*Well/Piezometer Number:* WC-19B1
Date of Completion: 12-9-94	*Inspector:* Jacqueline Heitzman
Surveyed Top of Riser Elevation: 6.29 ft	*Datum:* Mean Sea Level



Materials Used

Casing: 12" steel casing

Riser Pipe: PVC Pipe 2". schedule 40, 30 feet

Screen: PVC 2" screen schedule 40, 10 feet.

Grout: Portland cement Bentonite

Seal: Bentonite

Screen Pack: SAND #1

Borehole Specifications

Diameter of Borehole: 6.25 ID

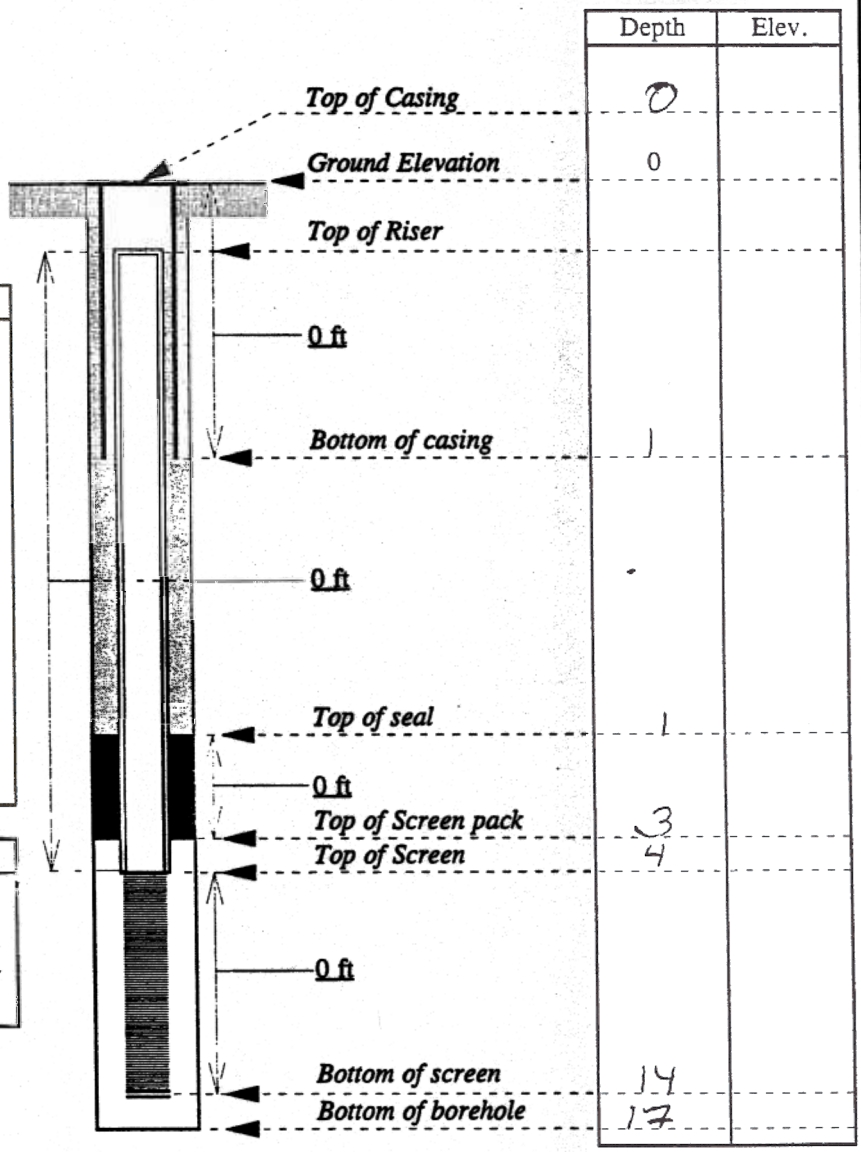
Drilling Method: 4" steel casing / roller bit

Depths and Elevations in feet (not to scale)

Notes:

WELL/PIEZOMETER CONSTRUCTION DIAGRAM

Project Name/Number: Stratford Army Engine Plant (C3MILL)	*Well/Piezometer Number:* WC-205
Date of Completion: 1-10-95	*Inspector:* J. Heitzman
Surveyed Top of Riser Elevation: 7.46 ft	*Datum:* Mean Sea Level



Materials Used

Casing: 12" Steel Casing

Riser Pipe: Schedule 40 PVC 4"

Screen: Schedule 40 PVC 10 slot screen 10'

Grout: Portland Cement/ Bentonite

Seal: Bentonite chips

Screen Pack: No. 1 Sand

Borehole Specifications

Diameter of Borehole: 4.25 ID HSA

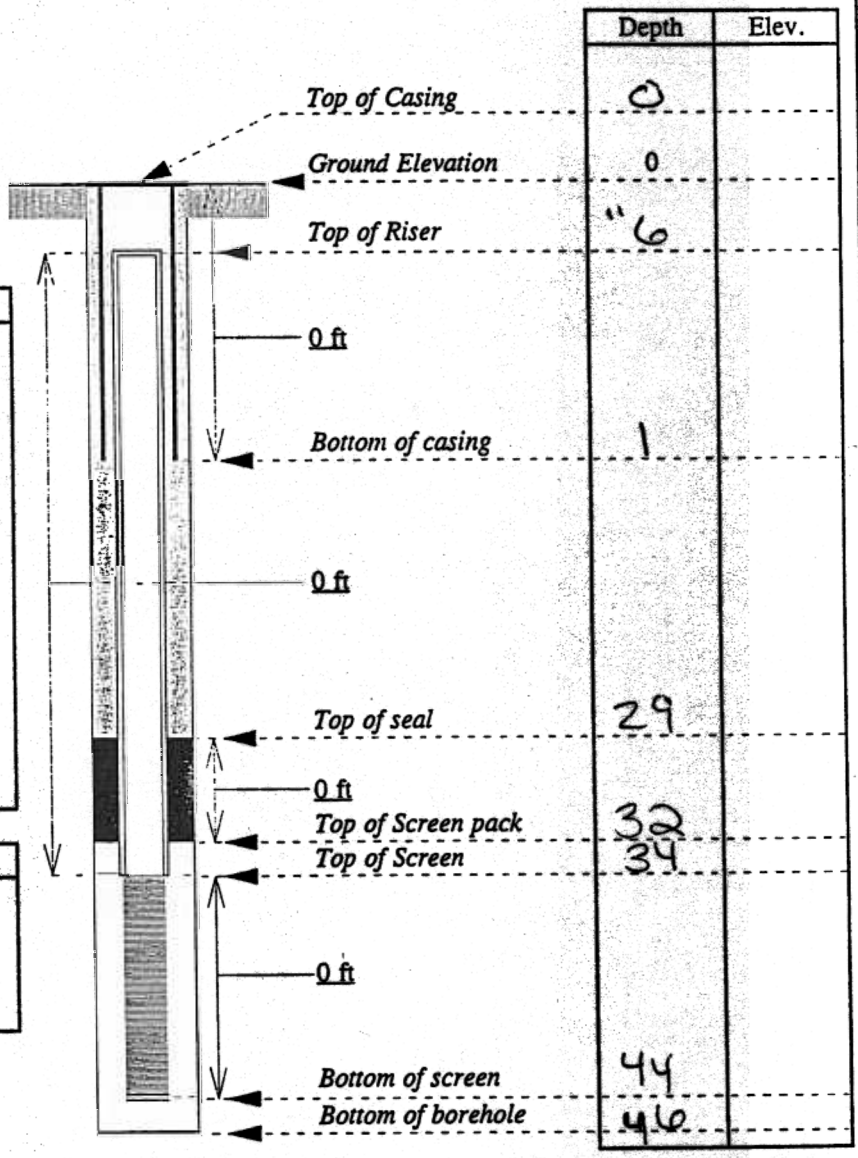
Drilling Method: Hollow Stem Augers

Depths and Elevations in feet (not to scale)

Notes:

WELL/PIEZOMETER CONSTRUCTION DIAGRAM

Project Name/Number: CBMIM Stratford Army Engine Plant	*Well/Piezometer Number:* WC-2001
Date of Completion: 1-11-95	*Inspector:* Jaqueline Heitzman
Surveyed Top of Riser Elevation: 2.50 ft	*Datum:* Mean Sea Level



Materials Used

Casing: 8" steel casing

Riser Pipe: Schedule 40 PVC riser, 2"

Screen: Schedule 40, slot 10, 2" screen

Grout: Portland cement Bentonite

Seal: Bentonite

Screen Pack: Sand #01

Borehole Specifications

Diameter of Borehole: 4.25 ID

Drilling Method: Hollow stem augers

Depths and Elevations in feet (not to scale)

Notes:

WELL/PIEZOMETER CONSTRUCTION DIAGRAM

Project Name/Number: Stratford Army Engine Plant C3MILL.	*Well/Piezometer Number:* WC-20D2
Date of Completion: 1-13-95	*Inspector:* J. Heitzman
Surveyed Top of Riser Elevation: 7.65 ft	*Datum:* Mean Sea Level

Materials Used

Casing: 12" steel casing

Riser Pipe: schedule 40 PVC, 2"

Screen: schedule 40, PVC 10 slot 2"

Grout: Portland cement/ Bentonite

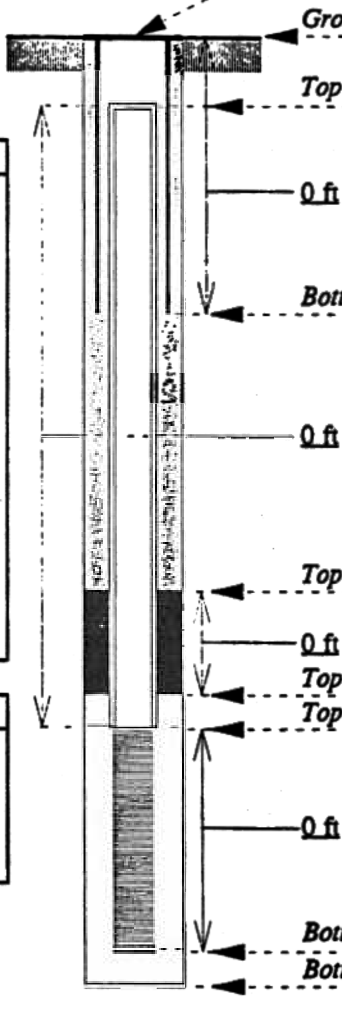
Seal: Bentonite

Screen Pack: Sand No #1

Borehole Specifications

Diameter of Borehole: 4.25 ID

Drilling Method: Hollow stem augers



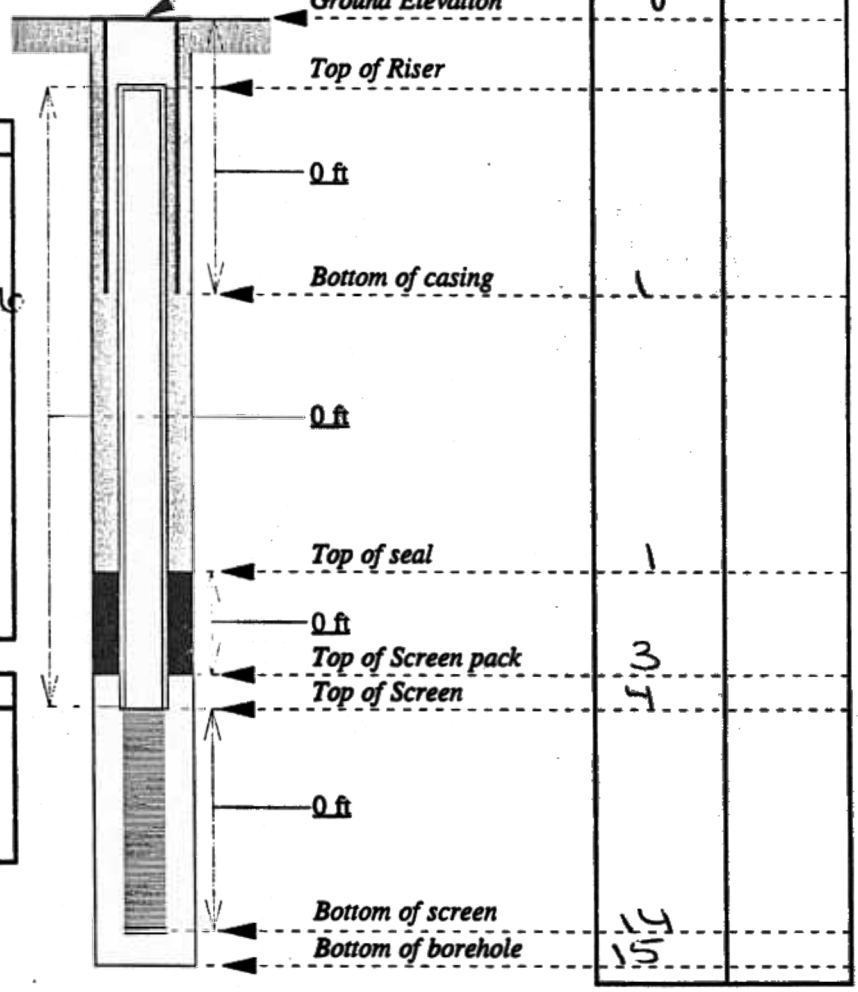
	Depth	Elev.
Top of Casing	0	
Ground Elevation	0	
Top of Riser	"6	
Bottom of casing	1	
Top of seal	133	
Top of Screen pack	136	
Top of Screen	138	
Bottom of screen	148	
Bottom of borehole	150	

Depths and Elevations in feet (not to scale)

Notes:

WELL/PIEZOMETER CONSTRUCTION DIAGRAM

Project Name/Number: Stratford Army Engine Plant	*Well/Piezometer Number:* WC-215
Date of Completion: 12-23-94	*Inspector:* Jacqueline Heitzman
Surveyed Top of Riser Elevation: 7.19 ft	*Datum:* Mean Sea Level



Materials Used

Casing: 12" Steel casing

Riser Pipe: PVC schedule 40, 2"

Screen: 10 slot PVC schedule 40, 2"

Grout: Portland cement Bentonite

Seal: Bentonite

Screen Pack: Sand #2

Borehole Specifications

Diameter of Borehole: 4.25 ID

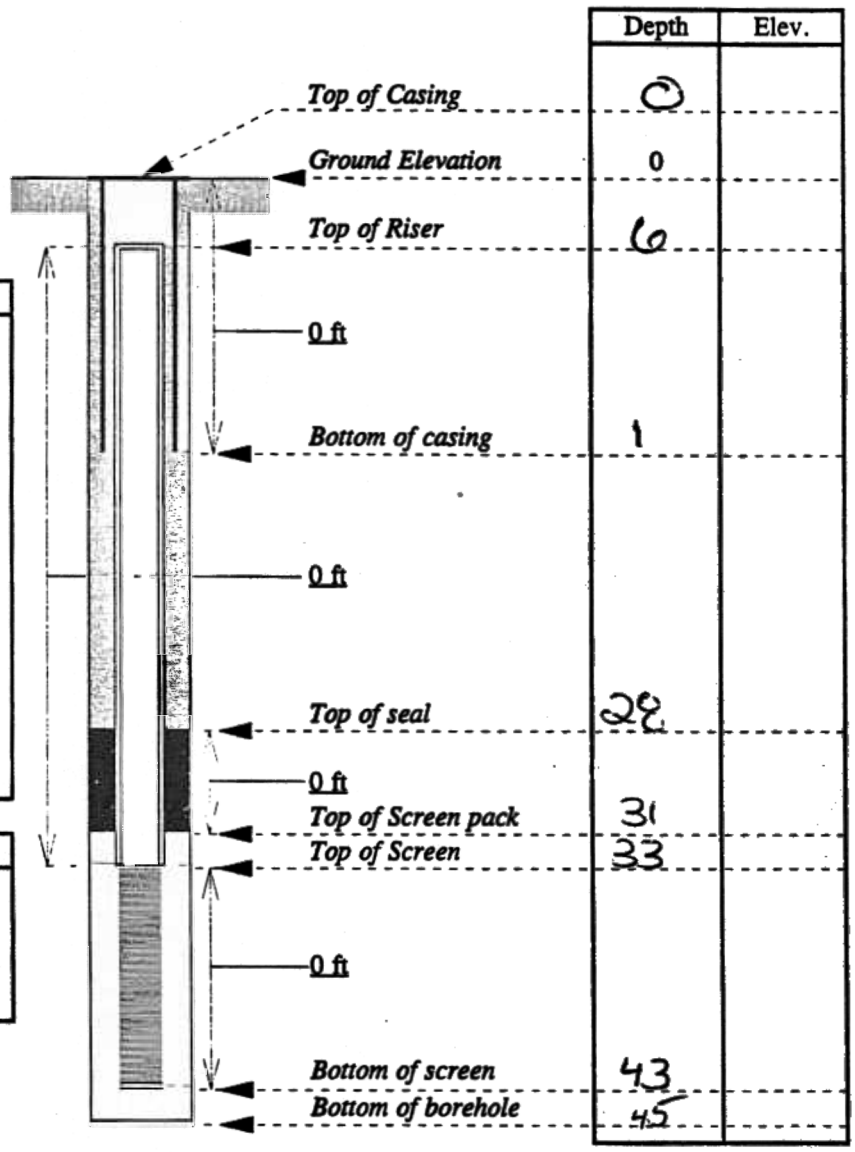
Drilling Method: HSA

Depths and Elevations in feet (not to scale)

Notes:

WELL/PIEZOMETER CONSTRUCTION DIAGRAM

Project Name/Number: Stratford Army Engine Plant C3MILL	*Well/Piezometer Number:* WC-21D1
Date of Completion: 12-22-94	*Inspector:* Jacqueline Heitzman
Surveyed Top of Riser Elevation: 7.28 ft	*Datum:* Mean Sea Level



Materials Used

Casing: 12" Steel casing

Riser Pipe: Schedule 40 PVC, 2"

Screen: Schedule 40 PVC 2", 10 SLOT

Grout: Portland Cement Bentonite

Seal: Bentonite chips

Screen Pack: Sand #2

Borehole Specifications

Diameter of Borehole: 4.25 ID

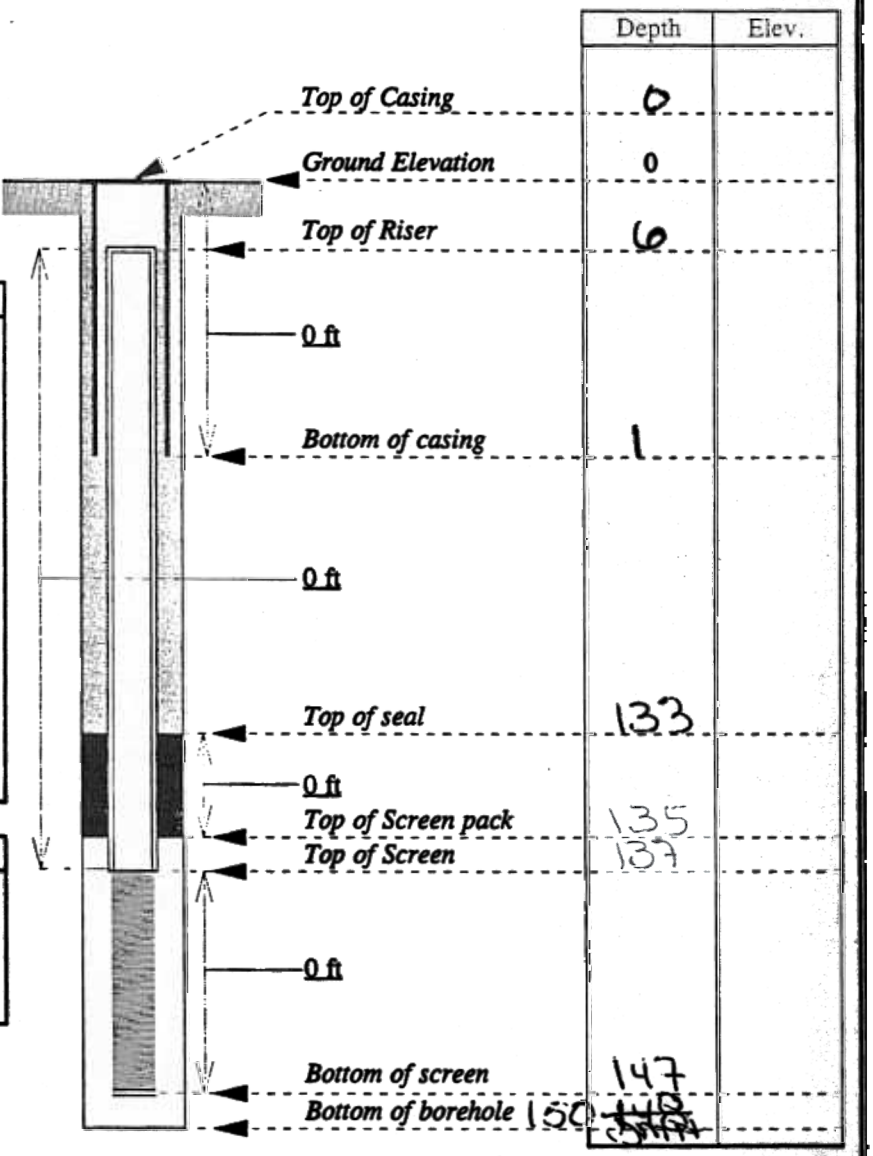
Drilling Method: HSA

Depths and Elevations in feet (not to scale)

Notes:

WELL/PIEZOMETER CONSTRUCTION DIAGRAM

Project Name/Number: Stanford Army Engineering Acunt G3M114	*Well/Piezometer Number:* WC-21D2
Date of Completion: 1-6-95	*Inspector:* Jacqueline Heitzman
Surveyed Top of Riser Elevation: 7.29 ft	*Datum:* Mean Sea Level



Materials Used

Casing: 12" steel casing

Riser Pipe: Schedule 40 PVC, 2"

Screen: 10 slot, Schedule 40 PVC, 2"

Grout: Portland Cement/ Bentonite

Seal: Bentonite

Screen Pack: #2/12 Sand

Borehole Specifications

Diameter of Borehole: 4.25 ID

Drilling Method: Hollow Stem Auger

Depths and Elevations in feet (not to scale)

Notes:

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC1-1S

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 8.01 ft
Date started and completed: 03/22/99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 3.01 ft
Inspector: Ricardo Colón	*Depth of borehole*: 12 ft	*Date developed*: 04/19/99

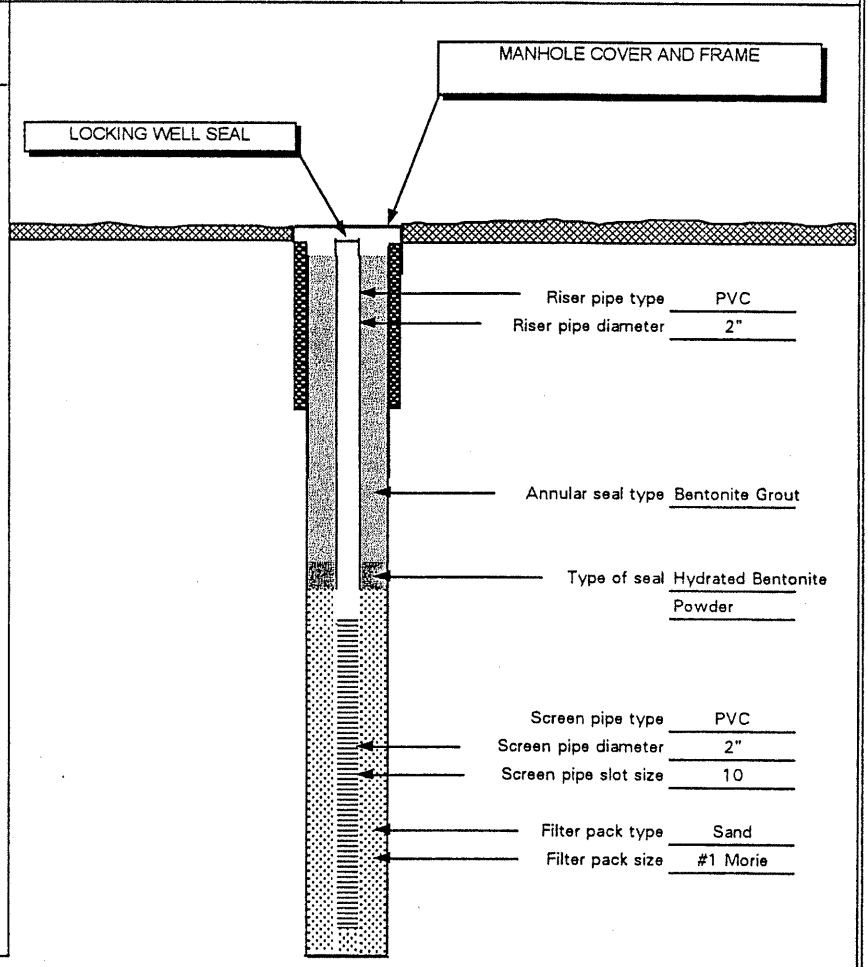
A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	8.01	0
B	7.79	0.22 ft
C	7.51	0.5 ft
D	6.51	1.5 ft
E	6.01	2 ft
F	-3.99	12 ft
G		12 ft

GENERALIZED SOIL DESCRIPTION

0 - 4'
Loose, moist, brown, clayey f. SAND - Clayey SAND (SC)
FILL LAYER

4'-12'
Med. dense, wet, brown, c-f SAND, some gravel - Poorly Graded SAND (SP)
GLACIAL DEPOSITS



REMARKS :
Used 4 bags of sand and changed filter.

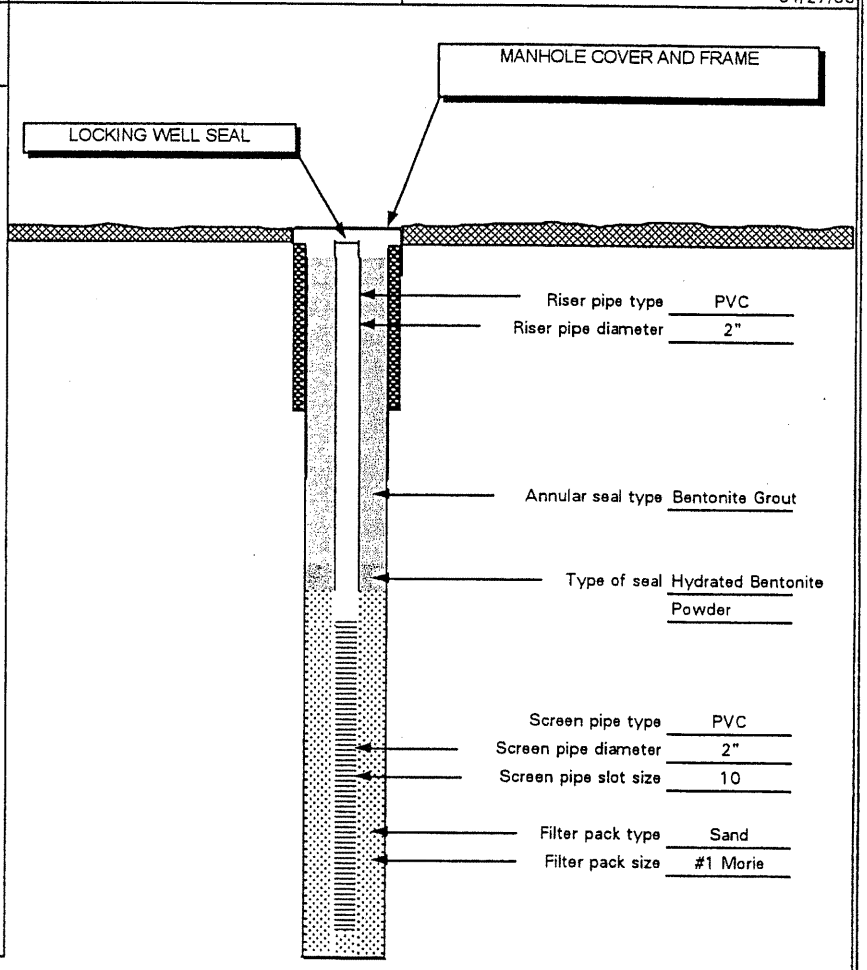
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-1D

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 6.69 ft
Date started and completed: 4-2-99 / 4-14-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 1.69 ft
Inspector: Ricardo Colón	*Depth of borehole*: 150 ft	*Date developed*: 04/27/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	6.69	0	
B	6.43	0.26 ft	0' - 0.5' ASPHALT
			0.5' - 15' Loose to med. dense, brown to dk. Gray, m-f SAND, some gravel, trace silt - Poorly Graded SAND (SP) GLACIAL DEPOSITS
C	-127.31	134 ft	
D	-130.31	137 ft	
			15' - 45' Very soft, dk. Gray, low plasticity, ORGANIC SILT, trace f. SAND - ORGANIC SILT (OL) ESTUARINE SILT
E	-133.31	140 ft	
			45' - 150' Very loose to med. dense, m-f SAND, trace gravel, trace silt - Poorly Graded SAND (SP) GLACIAL DEPOSITS
F	-143.31	150 ft	
G		150 ft	



REMARKS :
Used 7 bags of sand, 15 lbs of bentonite powder, and 9.5 bags of bentonite grout

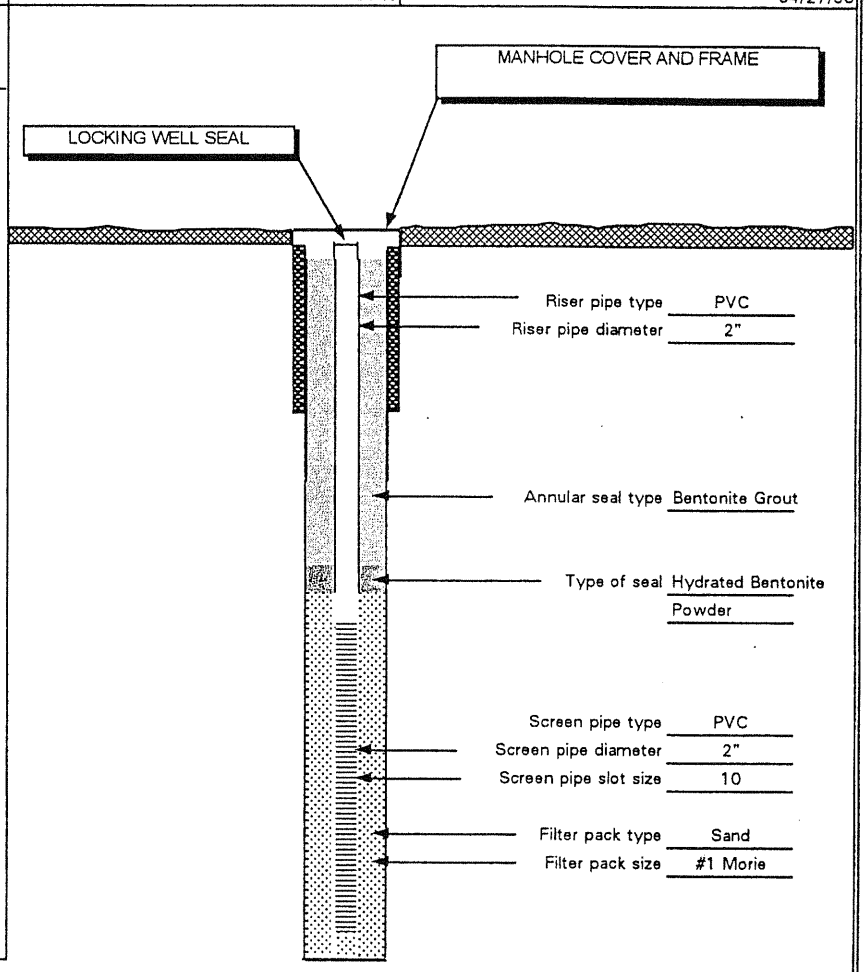
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-1I

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 6.83 ft
Date started and completed: 4-8-99 / 4-9-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 1.83 ft
Inspector: Ricardo Colón	*Depth of borehole*: 55 ft	*Date developed*: 04/27/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	6.83	0	
B	6.66	0.17 ft	**0' - 0.5'** Asphalt, aggregate
			0.5' - 15' Loose to med. dense, brown to dk. Gray, m-f SAND, some gravel, trace silt - Poorly Graded SAND (SP) GLACIAL DEPOSITS
C	-32.17	39 ft	
D	-35.17	42 ft	**15' - 45'** Very soft, dk. Gray, low plasticity, ORGANIC SILT, trace f. SAND - ORGANIC SILT (OL) ESTUARINE SILT
E	-38.17	45 ft	**45' - 55'** Very loose to med. dense, m-f SAND, trace gravel, trace silt - Poorly Graded SAND (SP) GLACIAL DEPOSITS
F	-48.17	55 ft	
G		55 ft	



REMARKS (Installation, development) :
Used 6 bags of sand, 0.5 bag of bentonite powder, and 2.5 bags of bentonite grout

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-1S

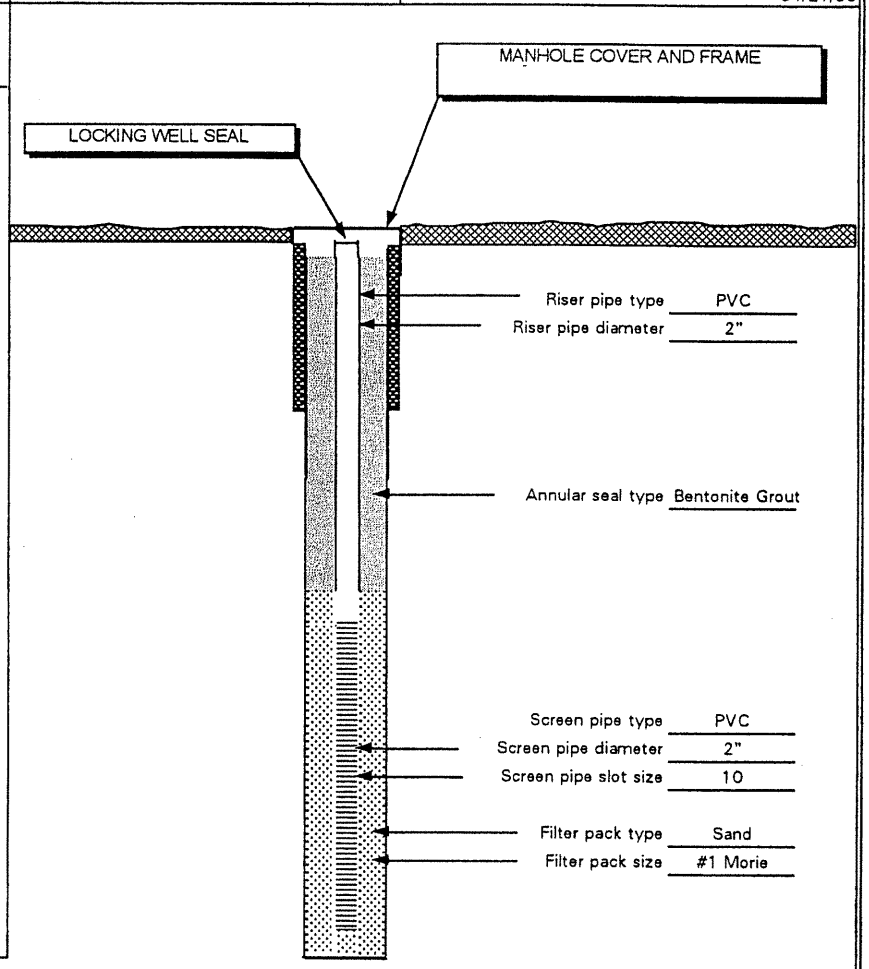
Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 6.27 ft
Date started and completed: 04/09/99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.27 ft
Inspector: Ricardo Colón	*Depth of borehole*: 12 ft	*Date developed*: 04/21/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	6.27	0
B	6.03	0.24 ft
C	5.77	0.5 ft
D	4.77	1.5 ft
E	4.27	2 ft
F	-5.73	12 ft
G		12 ft

GENERALIZED SOIL DESCRIPTION

0' - 12'
Loose, wet, brown, gravelly m-f SAND, some f. gravel - Poorly Graded SAND (SP)
FILL LAYER



REMARKS :
Used 5 bags of sand, 10 lbs of hydrated bentonite powder

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-2D

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.78 ft
Date started and completed: 4-1-99 / 4-5-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 1.78 ft
Inspector: Ricardo Colón	*Depth of borehole*: 67 ft	*Date developed*: 04/26/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	7.78	0
B	7.49	0.29 ft
C	-37.22	45.5 ft
D	-40.22	48.5 ft
E	-43.22	51.5 ft
F	-53.22	61.5 ft
G		67 ft

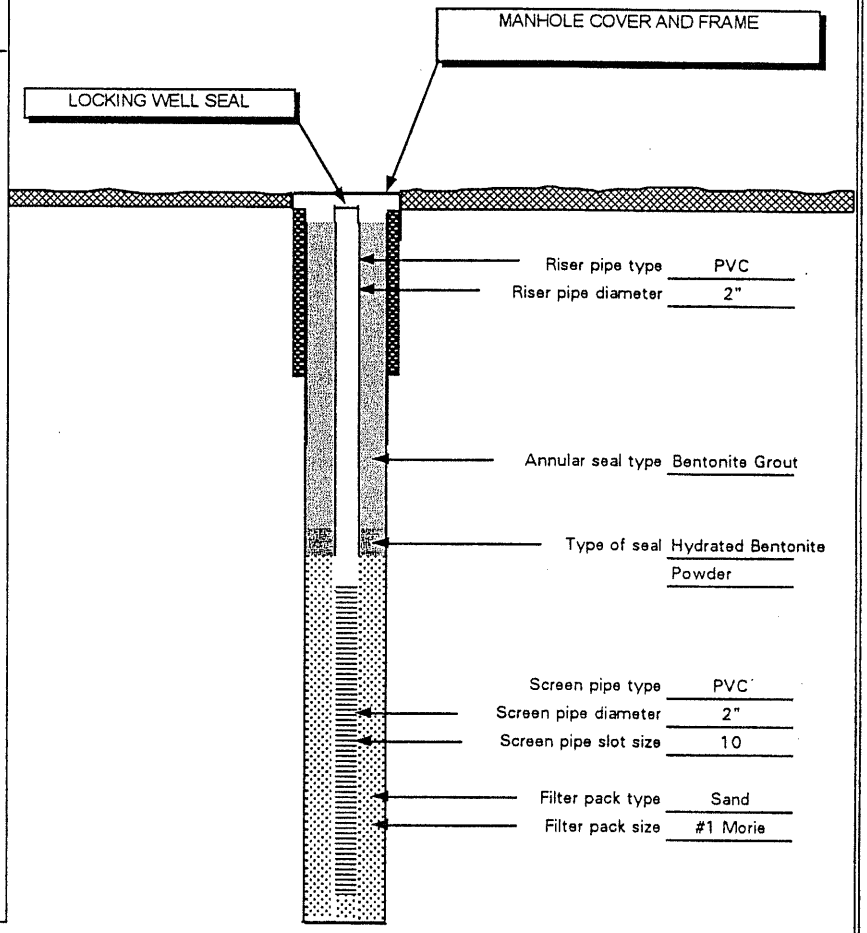
GENERALIZED SOIL DESCRIPTION

0' - 0.5' ASPHALT, aggregate

0.5' - 10' Loose to med. dense, brown, m-f SAND, trace f. gravel - Poorly Graded SAND (SP) FILL LAYER

10' - 60' Loose to med. dense, yellowish-orange to greenish-gray, m-f SAND, trace f. gravel, trace silt - Poorly Graded SAND (SP) GLACIAL DEPOSIT

60' - 65' Schist BEDROCK



REMARKS :

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-21

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.47 ft
Date started and completed: 3-26-99 / 3-30-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 1.97 ft
Inspector: Ricardo Colón	*Depth of borehole*: 55 ft	*Date developed*: 04/21/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

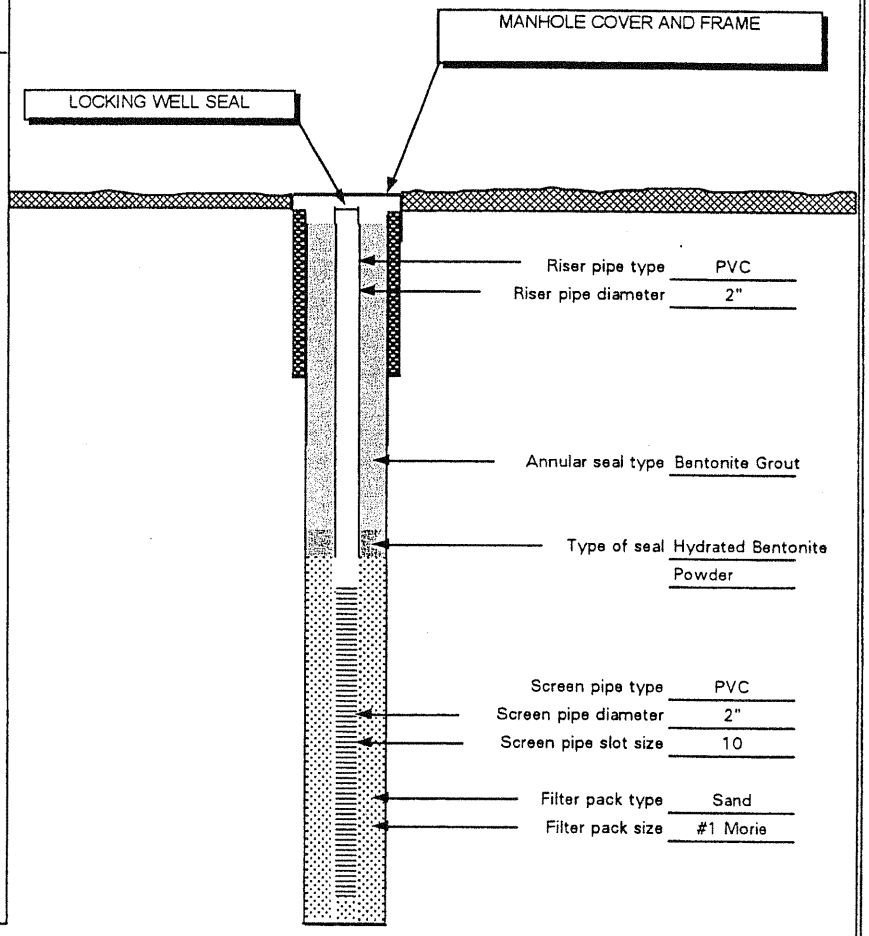
KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	7.47	0
B	6.97	0.5 ft
C	-31.53	39 ft
D	-34.53	42 ft
E	-37.53	45 ft
F	-47.53	55 ft
G		55 ft

GENERALIZED SOIL DESCRIPTION

0' - 12' - FILL LAYER

15'-45' - Very soft, wet, dk. gray, ORGANIC SILT
ESTUARINE SILT

45' - 57' - Med. dense, wet, brown, f. SAND
GLACIAL DEPOSITS



REMARKS :
Used 6.5 bags of sand, 0.5 bags of bentonite powder, and 2 bags of bentonite grout.

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-3D

Project name and number: SAEP 47F0R98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.72 ft
Date started and completed: 4-9-99 / 4-13-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.52 ft
Inspector: Ricardo Colón	*Depth of borehole*: 85 ft	*Date developed*: 04/27/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

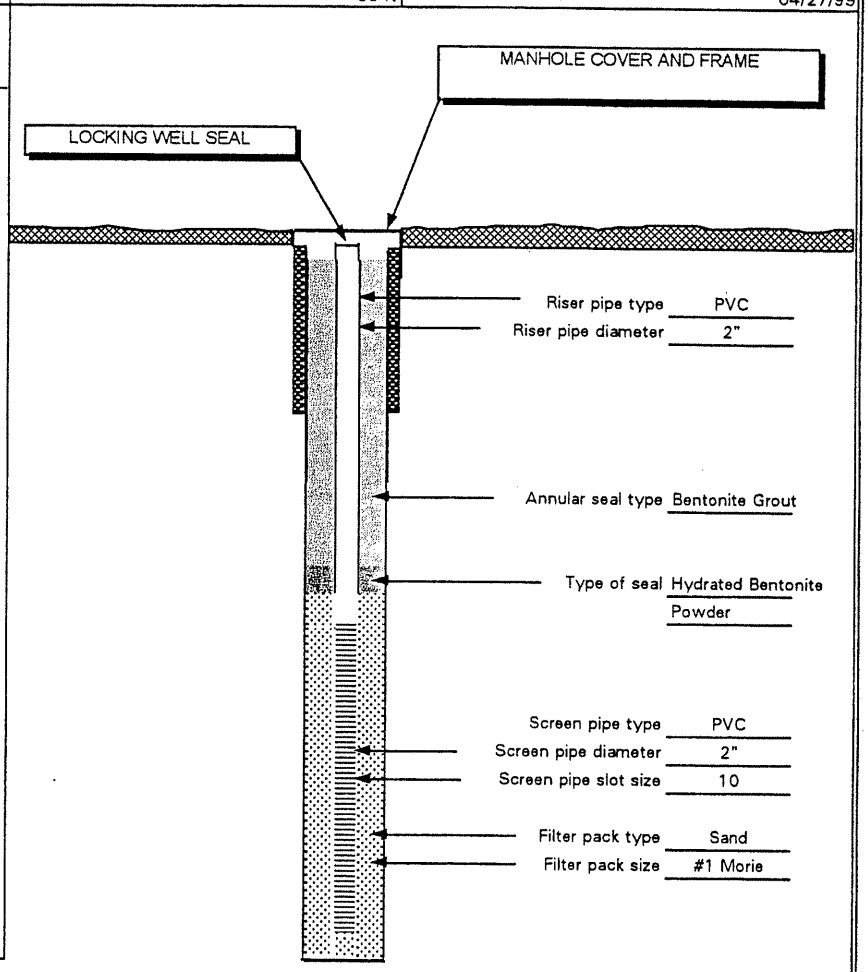
KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	7.72	0
B	7.50	0.22 ft
C	-60.28	68.5 ft
D	-63.28	71.5 ft
E	-66.28	74.5 ft
F	-76.28	84.5 ft
G		85 ft

GENERALIZED SOIL DESCRIPTION

0'-15' - FILL LAYER

15' - 85' - Loose to med. dense, c-f SAND, trace gravel
GLACIAL DEPOSITS

85' - 90' Phyllite
BEDROCK



REMARKS :
Used 5.5 bags of sand, 20 lbs of bentonite powder, and 5.25 bags of bentonite grout

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-3I

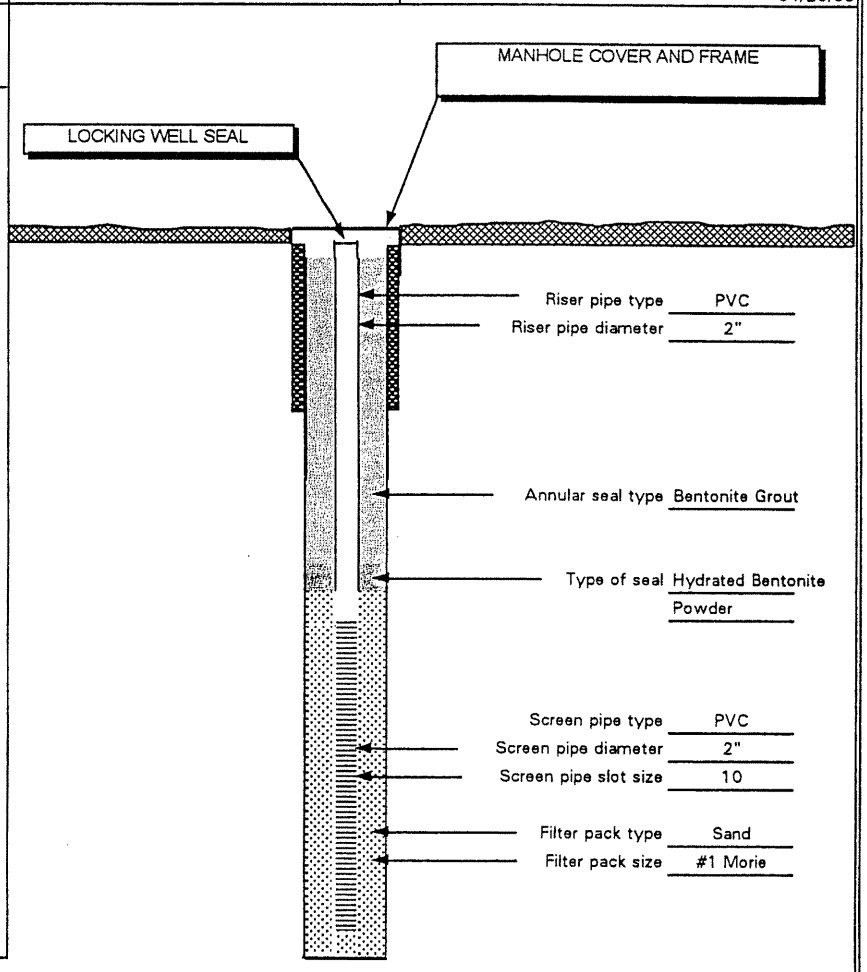
Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 6.17 ft
Date started and completed: 3-25-99 / 3-26-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.47 ft
Inspector: Ricardo Colón	*Depth of borehole*: 55 ft	*Date developed*: 04/20/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	6.17	0
B	5.99	0.18 ft
C	-32.83	39 ft
D	-35.83	42 ft
E	-38.83	45 ft
F	-48.83	55 ft
G		55 ft

GENERALIZED SOIL DESCRIPTION

0'-12' - FILL LAYER
15'-42' - Soft, dk. gray, ORGANIC SILT
ESTUARINE SILT
45' - 55' - Med. dense, yellowish-orange, m-f SAND
GLACIAL DEPOSITS



REMARKS :
One half bag of bentonite powder was used

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-3S

Project name and number: SAEP FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.40 ft
Date started and completed: 3-29-99 / 3-30-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 1.90 ft
Inspector: Ricardo Colón	*Depth of borehole*: 12 ft	*Date developed*: 04/21/99

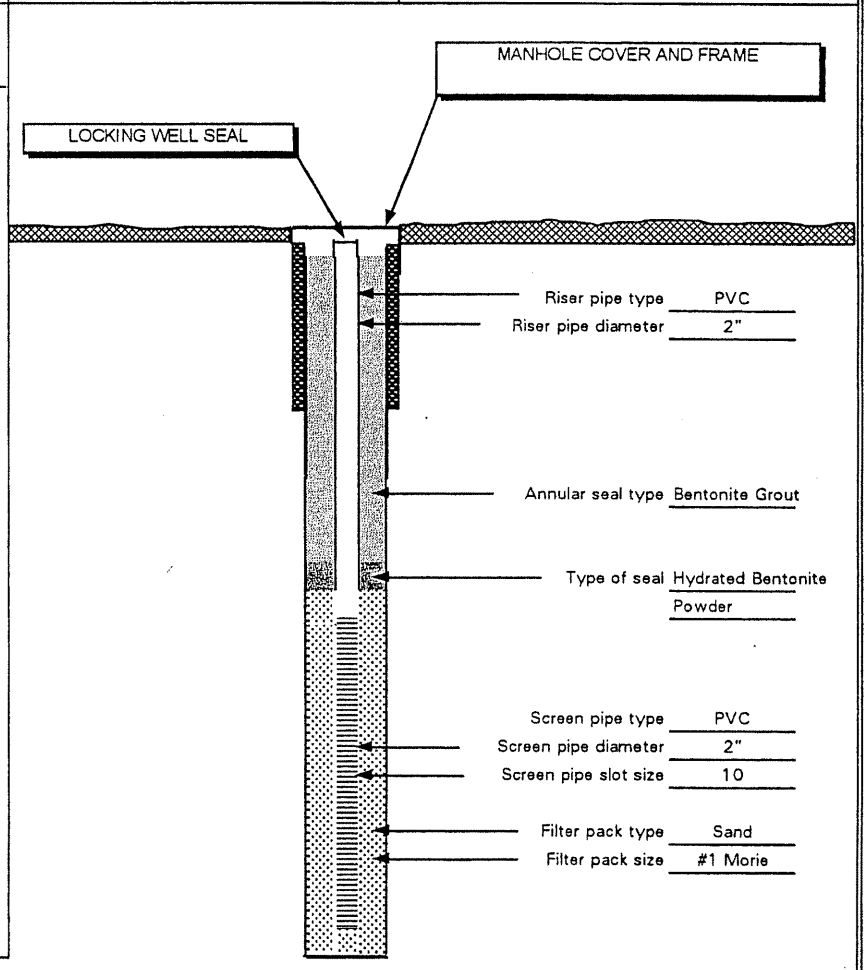
A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	7.40	0
B	7.02	0.38 ft
C	6.9	0.5 ft
D	5.9	1.5 ft
E	5.4	2 ft
F	-4.6	12 ft
G		12 ft

GENERALIZED SOIL DESCRIPTION

0' - 0.5' CONCRETE

0.5' - 12'
Med. dense to very dense, brown, f. SAND, some silt, trace gravel - Poorly Graded SAND (SP)
FILL LAYER



REMARKS :
Used 6 bags of sand

Depth to water table - 5.5 ft

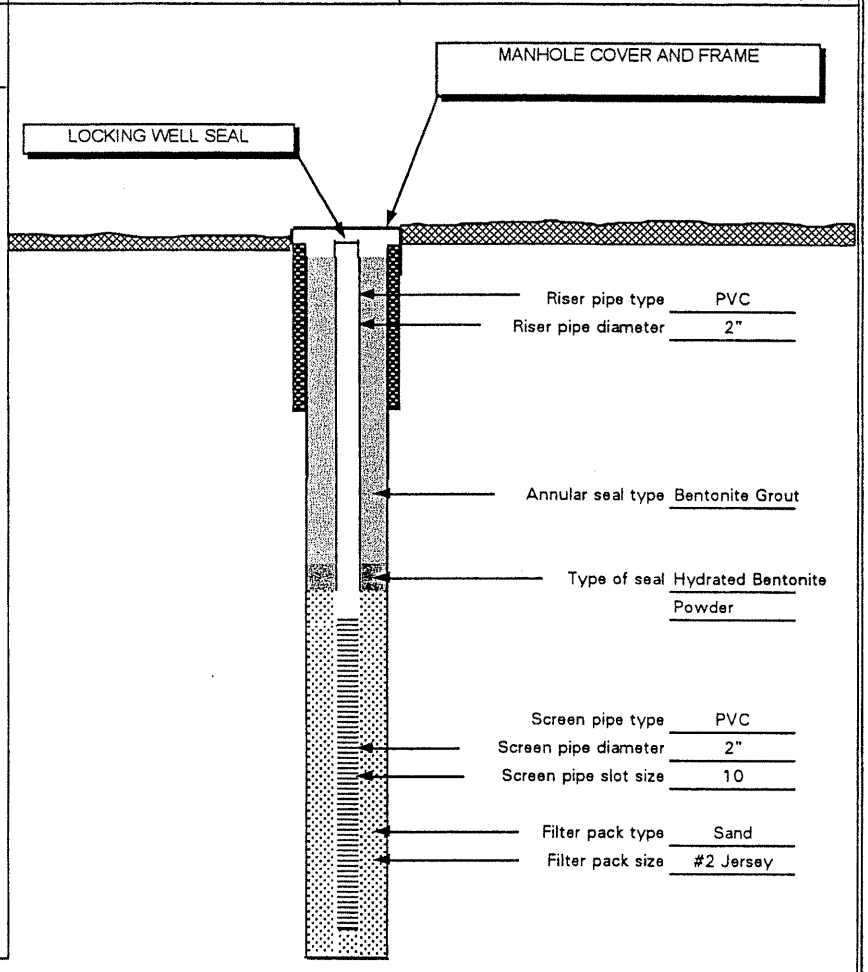
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-41

Project name and number: SAEP 47FOR98104	*Drilling company*: New England Boring Contractors	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Flush Joint Casing	*Ground elevation*: 7.61 ft
Date started and completed: 10/26/99	*Diameter of borehole*: 6 inches	*Groundwater elevation*: 3.61 ft
Inspector: Steve Vallianos	*Depth of borehole*: 37 ft	*Date developed*: 11/04/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	7.61	0	
B	7.08	0.53 ft	0' - 1' - ASPHALT, aggregate
			1' - 9' - M. Dense - V. Dense, m-f SAND, trace gravel (SP-SW)
C	-13.39	21 ft	FILL LAYER
D	-15.39	23 ft	9' - 37' - M. Dense - V. Dense, m-f SAND, trace gravel (SP-SW)
E	-17.39	25 ft	GLACIAL DEPOSITS
F	-27.39	35 ft	
G		35 ft.	



REMARKS :
Used 5 bags of sand, 1 bag of hydrated bentonite powder, 2 bags of bentonite grout.

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-4S

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.56 ft
Date started and completed: 3-21-99 / 3-22-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.56 ft
Inspector: Ricardo Colón	*Depth of borehole*: 12 ft	*Date developed*: 04/19/99

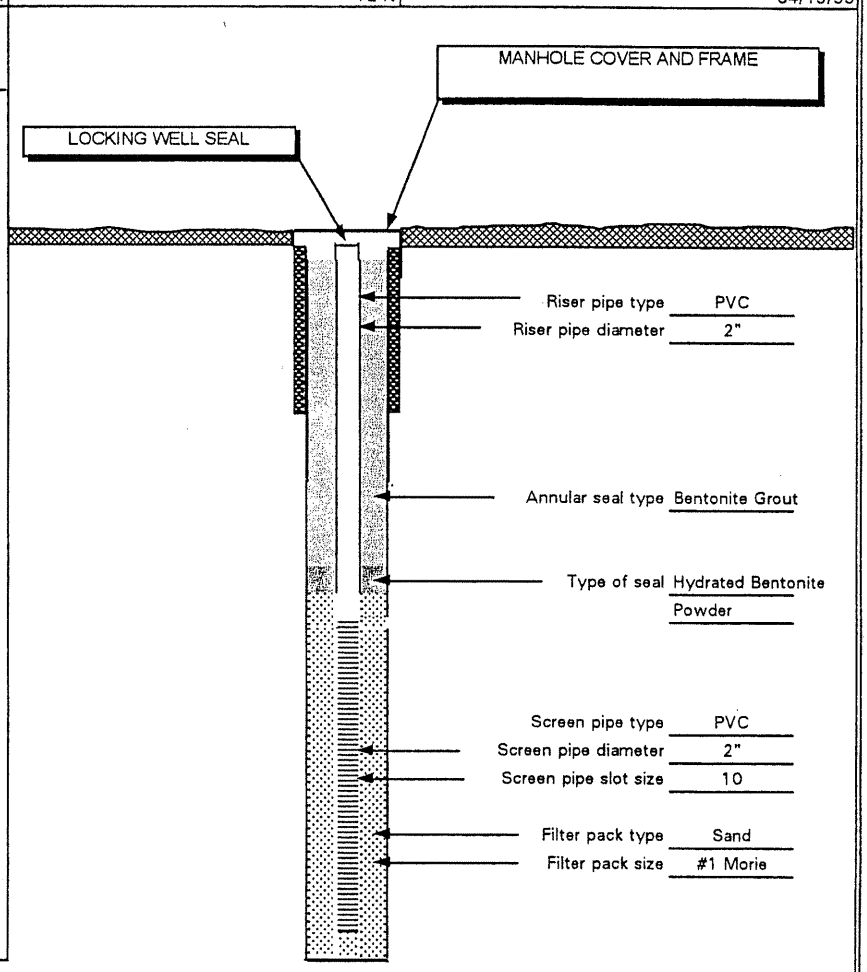
A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	7.56	0
B	7.32	0.24 ft
C	7.06	0.5 ft
D	6.06	1.5 ft
E	5.56	2 ft
F	-4.44	12 ft
G		12 ft

GENERALIZED SOIL DESCRIPTION

0' - 0.75' Concrete

0.75' - 10.75'
Med. dense to loose, brown, f. SAND, trace f. gravel to c. sand
Poorly Graded SAND (SP)
FILL LAYER



REMARKS :
The drill rig that was used for the installation of these wells was a truck mounted CME 75.

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-5I

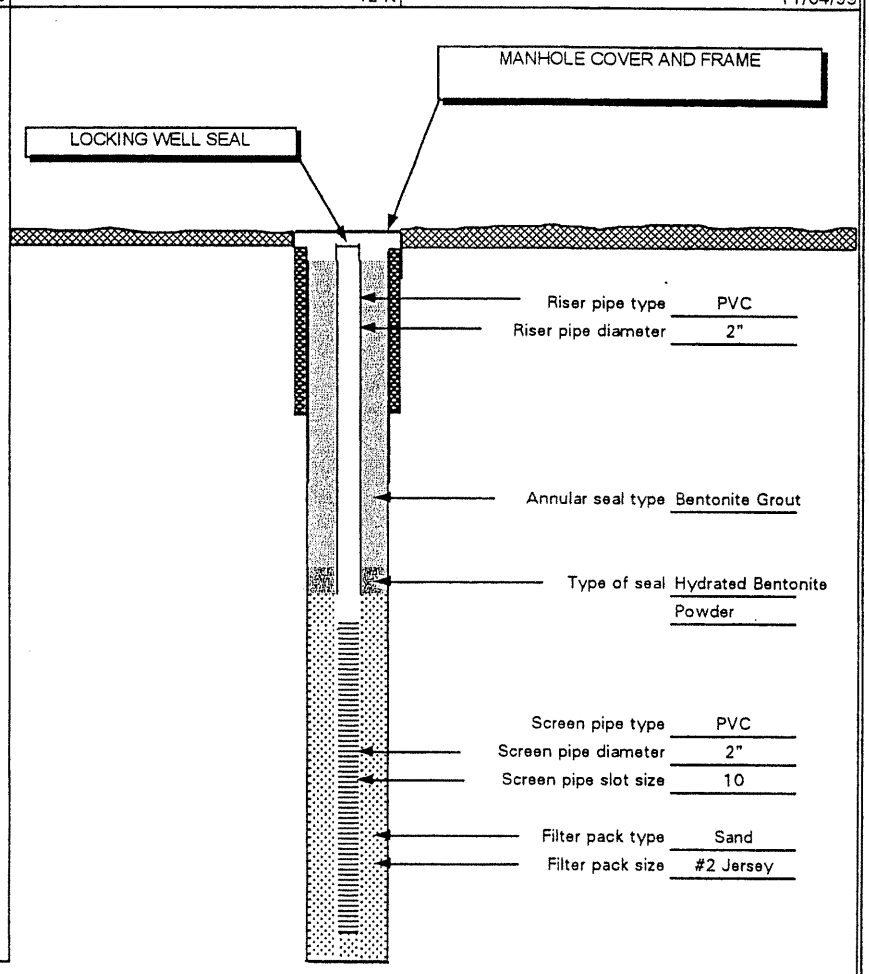
Project name and number: SAEP 47FOR98104	*Drilling company*: New England Boring Contractors	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 9.34 ft
Date started and completed: 10/25/99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.09 ft
Inspector: Steve Vallianos	*Depth of borehole*: 42 ft	*Date developed*: 11/04/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	9.34	0
B	8.97	0.37 ft
C	-12.66	22 ft
D	-15.66	25 ft
E	-20.66	30 ft
F	-30.66	40 ft
G		40 ft

GENERALIZED SOIL DESCRIPTION

0' - 1' - ASPHALT, aggregate
0.5' - 42' - Dense to V. Dense, m-f SAND (SP-SW)
FILL/GLACIAL DEPOSITS



REMARKS :
Used 5 bags of sand, 1 bag of hydrated bentonite powder, 2 bags of bentonite grout.

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-5S

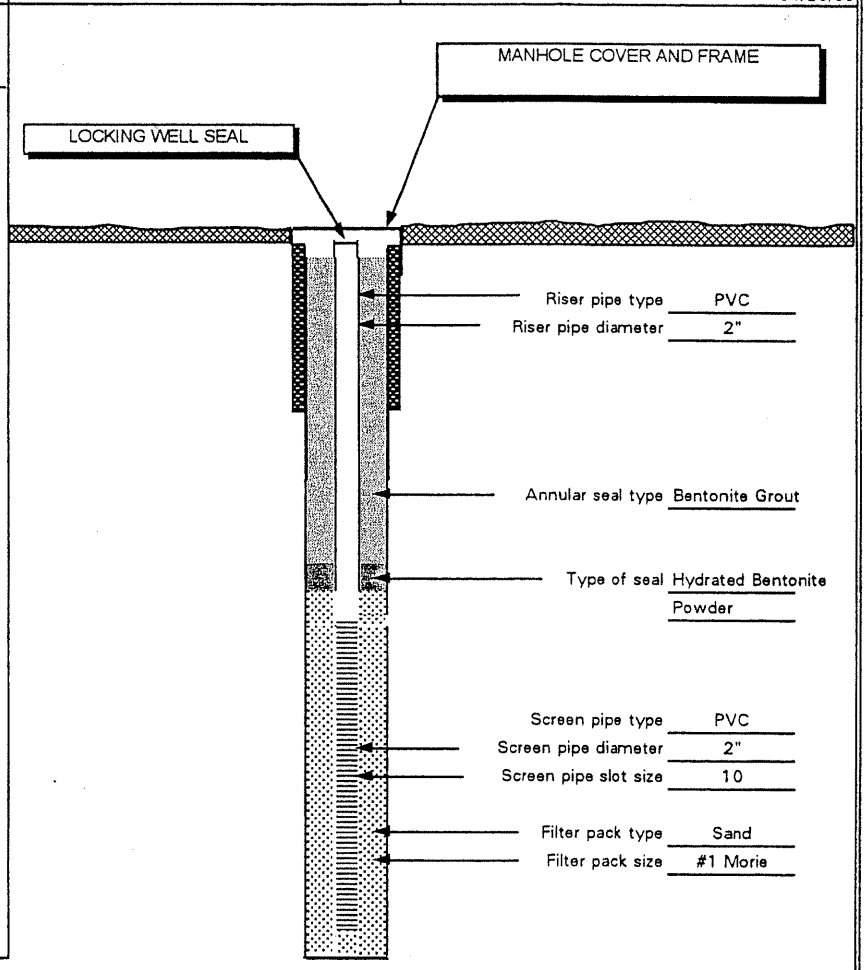
Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 9.43 ft
Date started and completed: 03/23/99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 3.43 ft
Inspector: Ricardo Colón	*Depth of borehole*: 12 ft	*Date developed*: 04/20/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	9.43	0
B	9.19	0.24 ft
C	8.93	0.5 ft
D	7.93	1.5 ft
E	7.43	2 ft
F	-2.57	12 ft
G		12 ft

GENERALIZED
SOIL DESCRIPTION
0' - 3in - ASPHALT, aggregate

3in - 12' Brown, med. dense, c-f SAND, minor f. gravel
FILL LAYER



REMARKS (Installation, development) :
Used 5 bags of sand, 10 lbs of bentonite powder, 0.5 bags of bentonite grout.

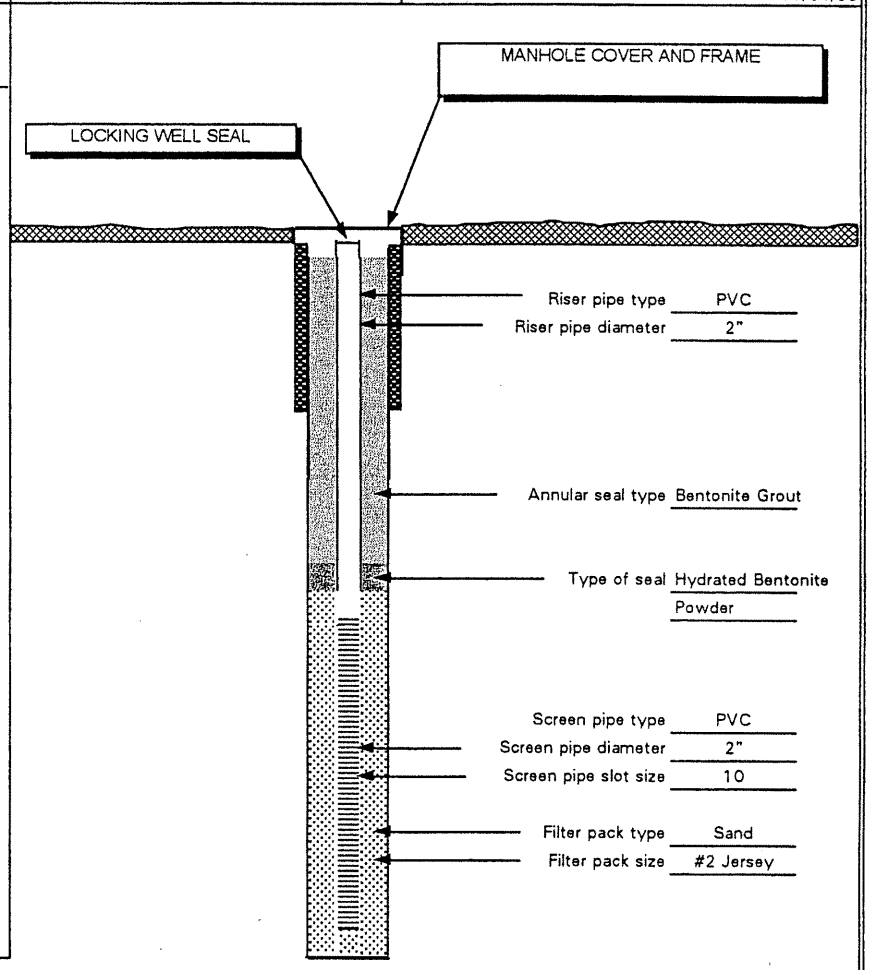
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC2-6I

Project name and number SAEP 47F0R98104	*Drilling company* New England Boring Contractors	*Elevation datum* NGVD - 1929
Project location Stratford, Connecticut	*Drilling method* Flush Joint Casing	*Ground elevation* 6.96 ft
Date started and completed 10/27/99	*Diameter of borehole* 6 inches	*Groundwater elevation* 2.36 ft
Inspector Steve Vallianos	*Depth of borehole* 52 ft	*Date developed* 11/04/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	6.96	0	
B	6.65	0.31 ft	0' - 1' - ASPHALT, aggregate 1' - 8.5' - M. Dense to loose, m-f SAND, (SW-SP)
C	-27.04	34.5 ft	FILL LAYER 8.5' - 9' - Soft, black-gray, ORGANIC SILT
D	-31.04	38 ft	9' - 50' M. Dense to v. dense, m-f SAND, (SW-SP) FILL
E	-33.04	40 ft	50' - 52' V. dense, f-c SAND, tillte to trace gravel (SP-GP) GLACIAL DEPOSITS
F	-43.04	50 ft	
G		50 ft	



REMARKS :
Used 5 bags of sand, 1 bag of hydrated bentonite powder, 2 bags of bentonite grout.

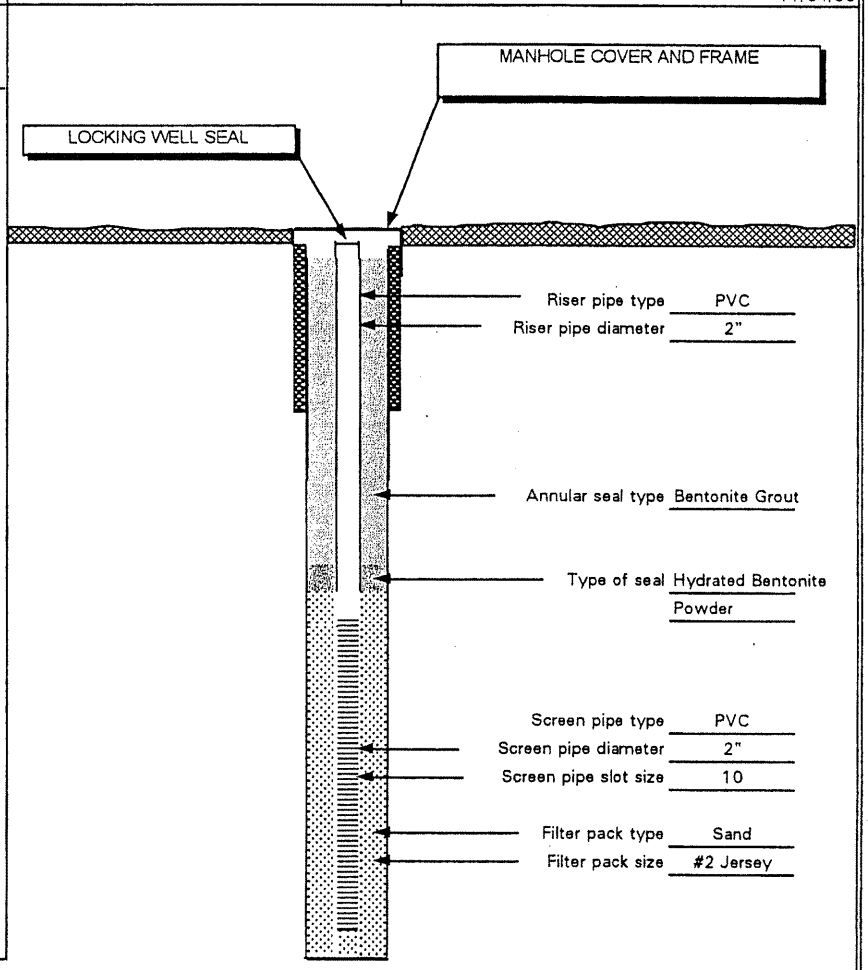
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC3-1D

Project name and number: SAEP 47FOR98104	*Drilling company*: New England Boring Contractors	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Flush Joint Casing	*Ground elevation*: 6.28 ft
Date started and completed: 11/01/1999 to 11/02/99	*Diameter of borehole*: 6 inches	*Groundwater elevation*: 2.33 ft
Inspector: Steve G. Vallianos	*Depth of borehole*: 87 ft	*Date developed*: 11/04/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	6.28	0	
B	5.83	0.45 ft	0' - 1' - ASPHALT, aggregate 1' - 3' - M. Dense, brown, m-f SAND, (SP) FILL LAYER 3' - 15' - M. Dense to dense, f-c SAND (SP) GLACIAL DEPOSITS
C	-64.72	71 ft	30' - 55', V. Dense to m. dense, f. micaceous SAND (SP) GLACIAL DEPOSITS
D	-66.72	73 ft	55' - 65' Dense, grey-brown, SILT and f. SAND (ML) GLACIAL DEPOSITS
E	-68.72	75 ft	65' - 75', Dense, grey-brown, f. micaceous SAND, little silt (SP) GLACIAL DEPOSITS 75' - 80', V. stiff, grey-brown, SILT and f. SAND, lenses of thin red clay (ML) GLACIAL DEPOSITS
F	-78.72	85 ft	80' - 87', V. Dense, f. SAND, some f. gravel, little silt (SP) GLACIAL DEPOSITS
G		85 ft	



REMARKS :
Used 5 bags of sand, 1 bag of hydrated bentonite powder, 2 bags of bentonite grout.

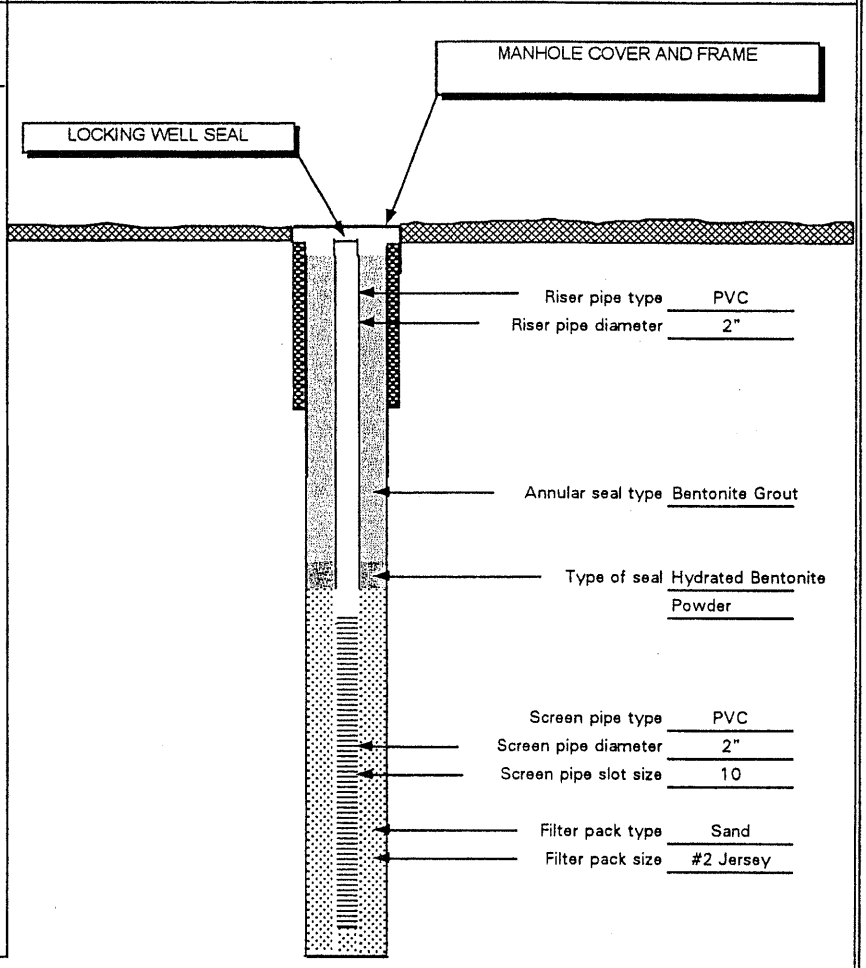
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC3-1I

Project name and number: SAEP FOR98104	*Drilling company*: New England Boring Contractors	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Flush Joint Casing	*Ground elevation*: 6.28 ft
Date started and completed: 11/03/99	*Diameter of borehole*: 6 inches	*Groundwater elevation*: 2.38 ft
Inspector: Steve Vallianos	*Depth of borehole*: 40 ft	*Date developed*: 11/04/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	6.28	0	
B	5.88	0.4 ft	0' - 1' - ASPHALT, aggregate 1' - 3' - M. Dense, brown, m-f SAND, (SP) FILL LAYER
C	-19.72	26 ft	3' - 15' - M. Dense to dense, f-c SAND (SP) GLACIAL DEPOSITS
D	-21.72	28 ft	
E	-23.72	30 ft	30' - 40', V. Dense to m. dense, f. micaceous SAND (SP) GLACIAL DEPOSITS
F	-33.72	40 ft	
G		40 ft	



REMARKS :
Used 5 bags of sand, 1 bag of hydrated bentonite powder, 2 bags of bentonite grout.

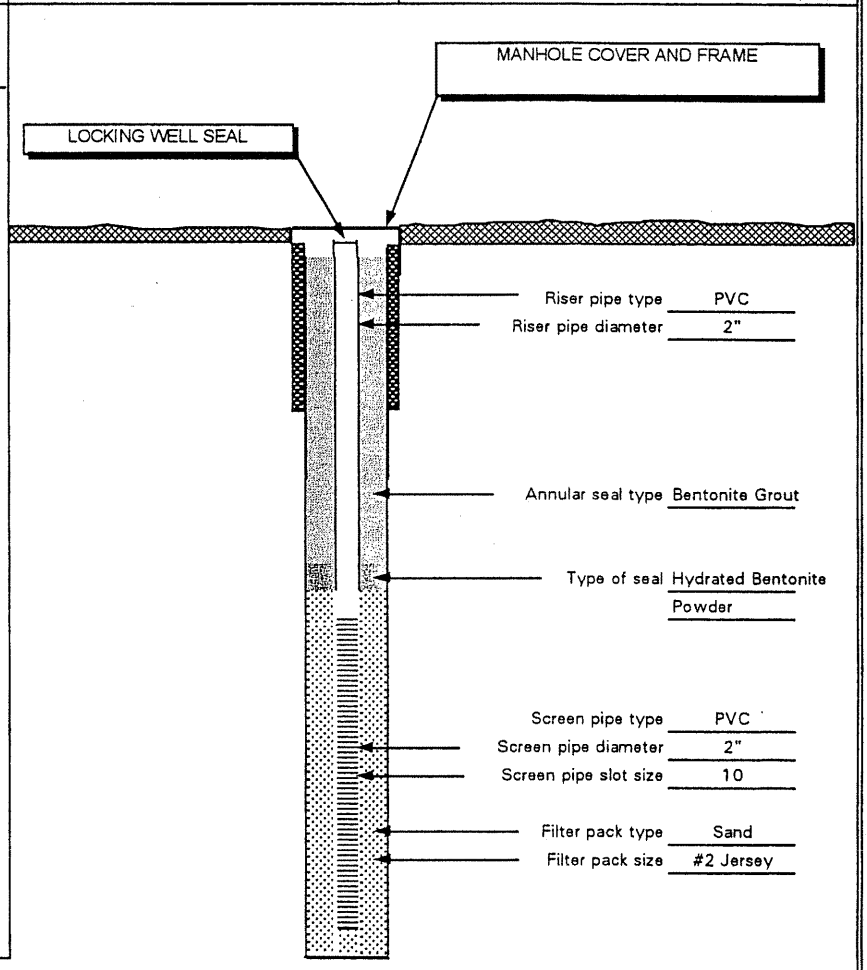
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC3-2D

Project name and number: SAEP 47FOR98104	*Drilling company*: New England Boring Contractors	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Flush Joint Casing	*Ground elevation*: 6.68 ft
Date started and completed: 10/28/1999 to 10/29/1999	*Diameter of borehole*: 6 inches	*Groundwater elevation*: 2.68 ft
Inspector: Steve Vallianos	*Depth of borehole*: 63 ft	*Date developed*: 11/04/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	6.68	0	
B	6.14	0.54 ft	**0' - 1'** - Asphalt **1' - 7'** - M. dense, brown, f-c SAND, trace gravel (SP) FILL LAYER **7' - 15'** - V. dense, brown, f-c SAND (SW) GLACIAL DEPOSITS
C	-42.32	49 ft	**15' - 21'**, Dense, grey, f-c SAND, trace f. gravel (SP) GLACIAL DEPOSITS
D	-44.32	51 ft	**21' - 25'** Brown, SANDY SILT (ML) GLACIAL DEPOSITS
E	-46.32	53 ft	**25' - 45'**, V. dense, tan, f. micaceous SAND, trace silt (SP) GLACIAL DEPOSITS **45' - 55'**, V. Dense to dense, tan, f. SAND, little to trace silt (SP-SM) GLACIAL DEPOSITS **55' - 61'**, V. Dense, brown, m-f SAN trace silt (SP) GLACIAL DEPOSITS
F	-56.32	63 ft	
G		63 ft	**61' - 62'**, Hard, grey SANDY SILT (ML) GLACIAL DEPOSITS



REMARKS :
Used 5 bags of sand, 1 bag of hydrated bentonite powder, 2 bags of bentonite grout.
Bottom of Well (or PVC Casing) is set on top of Bedrock.

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC3-2I

Project name and number: SAEP 47FOR98104	*Drilling company*: New England Boring Contractors	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Flush Joint Casing	*Ground elevation*: 6.77 ft
Date started and completed: 11/03/99	*Diameter of borehole*: 6 inches	*Groundwater elevation*: 2.38 ft
Inspector: Steve Vallianos	*Depth of borehole*: 40 ft	*Date developed*: 11/04/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	6.77	0
B	6.38	0.39 ft
C	-19.23	26 ft
D	-21.23	28 ft
E	-23.23	30 ft
F	-33.23	40 ft
G		40 ft

GENERALIZED SOIL DESCRIPTION

0' - 1' - ASPHALT, aggregate

1' - 7' - Med. dense, brown, f-c SAND, trace gravel (SP) FILL LAYER

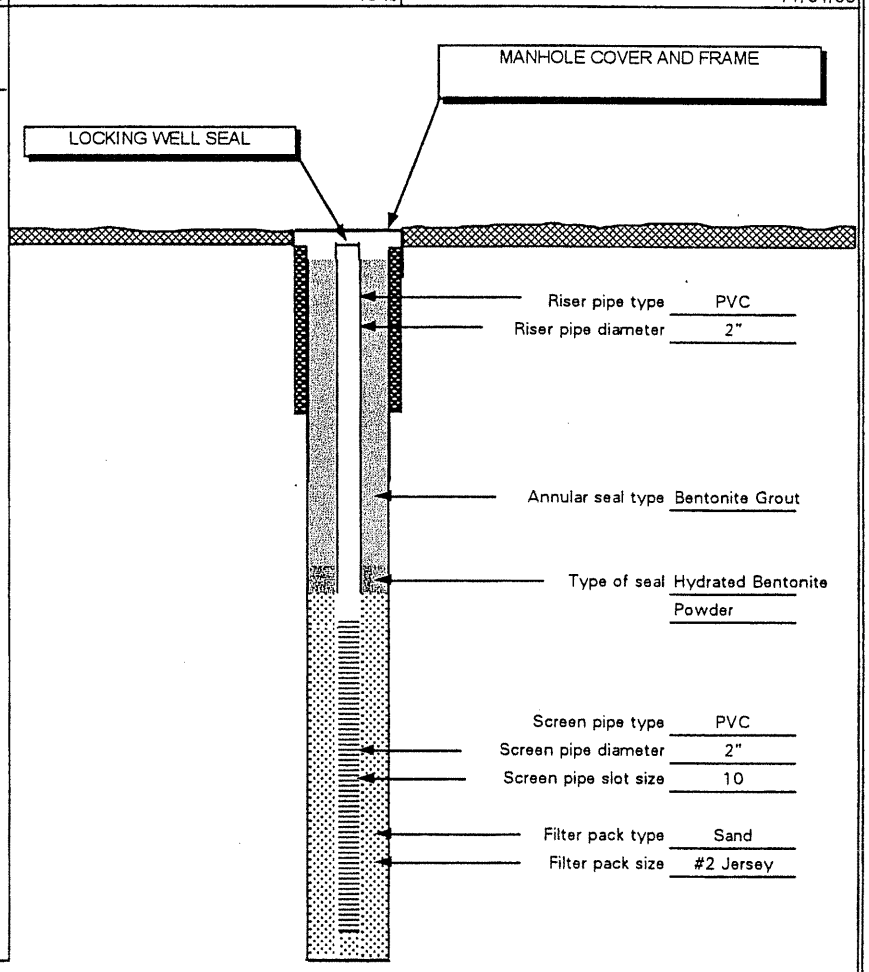
7' - 15' - V. dense, brown, f-c SAND (SW) GLACIAL DEPOSITS

15' - 21', Dense, grey, f-c SAND, trace f. gravel (SP) GLACIAL DEPOSITS

21' - 25' Brown, SANDY SILT (ML) GLACIAL DEPOSITS

GLACIAL DEPOSITS

25' - 40', V. dense, tan, f. micaceous SAND, trace silt (SP) GLACIAL DEPOSITS



REMARKS :
Used 5 bags of sand, 1 bag of hydrated bentonite powder, 2 bags of bentonite grout.

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC5-1D

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.75 ft
Date started and completed: 4-13-99 / 4-16-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.75 ft
Inspector: Ricardo Colón	*Depth of borehole*: 85 ft	*Date developed*: 04/26/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

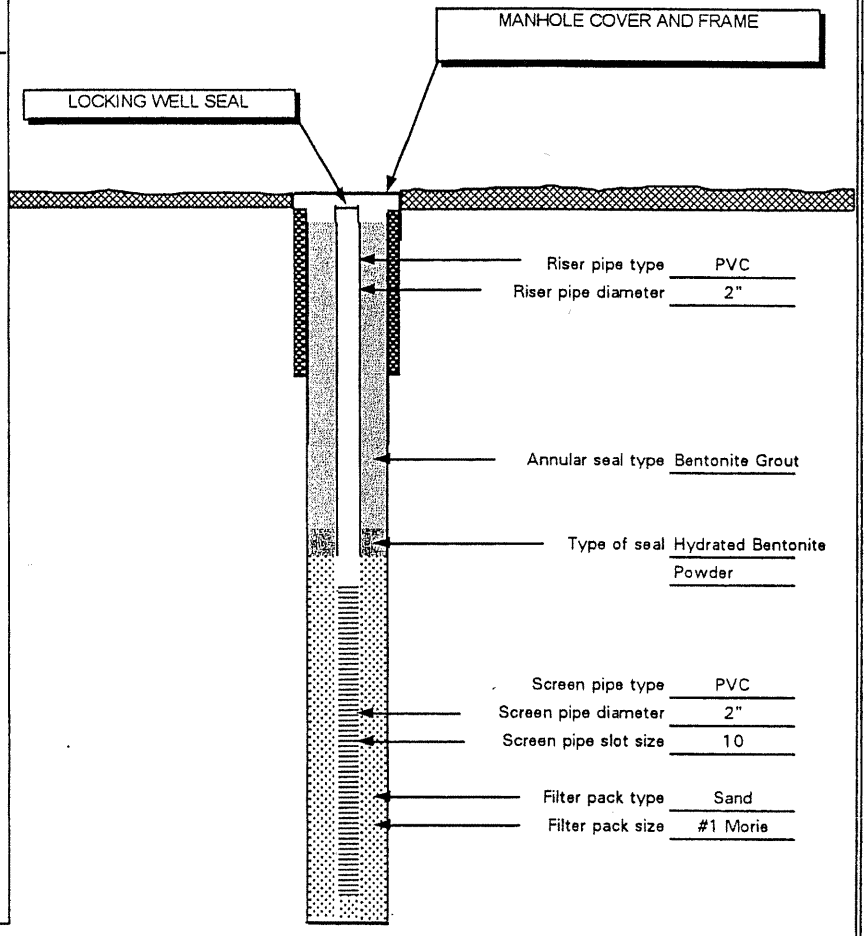
KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	7.75	0
B	7.33	0.42 ft
C	-60.25	68.5 ft
D	-63.25	71.5 ft
E	-66.25	74.5 ft
F	-76.25	84.5 ft
G		85 ft

GENERALIZED SOIL DESCRIPTION

0'-4' FILL LAYER

4' - 85'
Loose to med. dense, lt. brown to greenish-gray, f-c SAND, trace silt - Poorly Graded SAND (SP)
GLACIAL DEPOSITS

85' - 90' Phyllite
BEDROCK



REMARKS :
Used 4 bags of sand, 20 lbs of hydrated bentonite powder, and 11 bags of bentonite grout

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC5-1S

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 4.89 ft
Date started and completed: 03/22/99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.89 ft
Inspector: Ricardo Colón	*Depth of borehole*: 11.5 ft	*Date developed*: 04/19/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

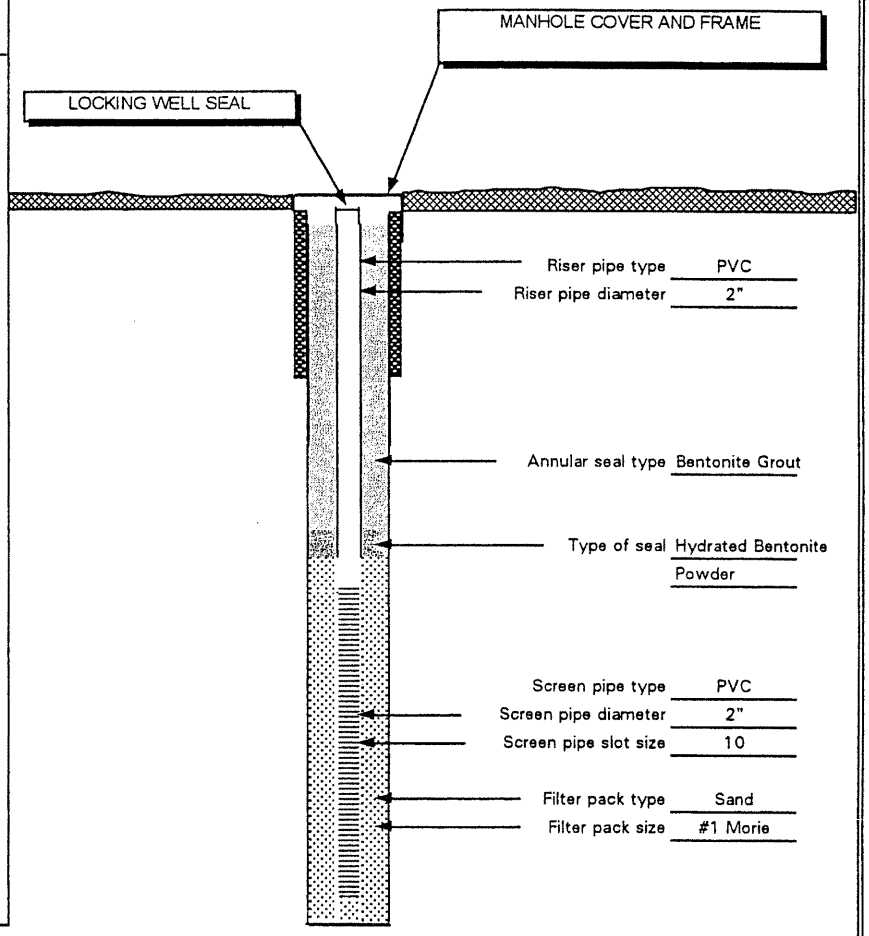
KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	4.89	0
B	4.67	0.22 ft
C	N/A	N/A
D	3.89	1 ft
E	3.39	1.5 ft
F	-6.11	11.5 ft
G		11.5 ft

GENERALIZED SOIL DESCRIPTION

0' - 0.25' - ASPHALT, aggregate

0.25 - 2 - Wet, med. dense, dk. gray, moist, gravelly, m-f SAND - Poorly Graded SAND (SP) - FILL

2' - 4' - Wet, med. dense, brown, m-f SAND, Poorly Graded SAND GLACIAL DEPOSITS



REMARKS (Installation, development) :
Groundwater found at 2 ft bgs. The hydrated bentonite powder was not used due to tight space.

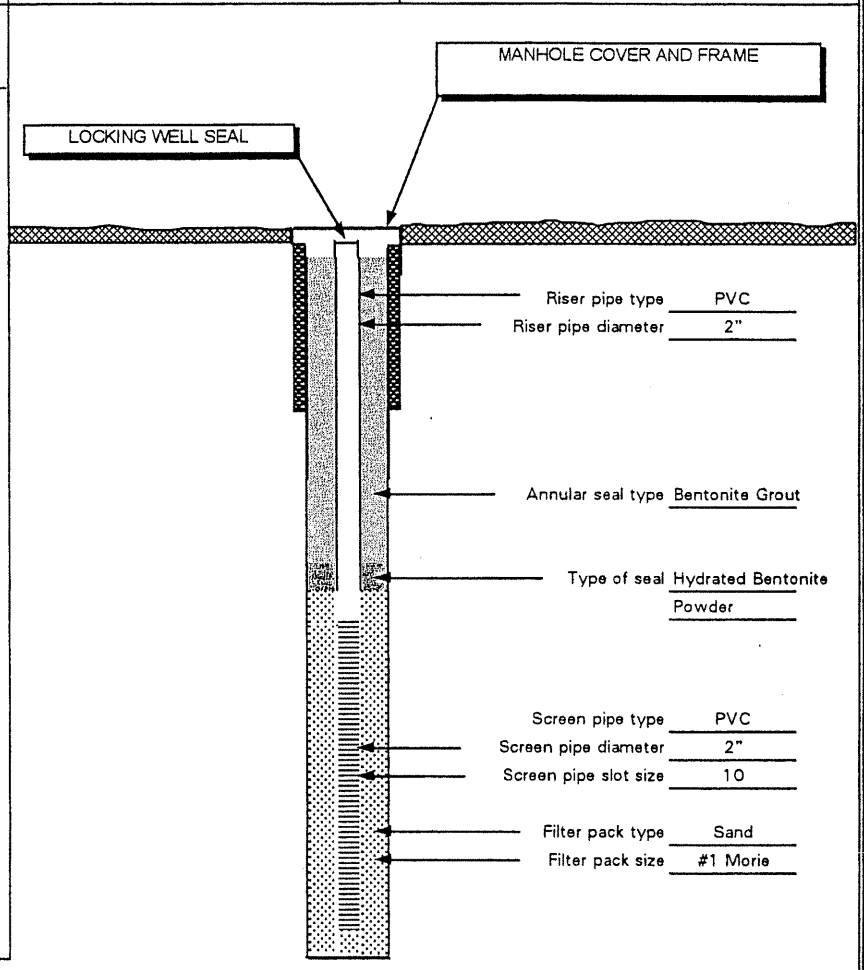
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC5-2I

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.70 ft
Date started and completed: 04/16/99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.70 ft
Inspector: Ricardo Colón	*Depth of borehole*: 40 ft	*Date developed*: 04/26/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	7.70	0	
B	7.43	0.27 ft	0' - 4' - FILL LAYER
			4' - 55' - Loose to med. dense, lt. brown to greenish-gray, m-f SAND, trace f. gravel - Poorly Graded SAND (SP) GLACIAL DEPOSITS
C	-16.3	24 ft	
D	-19.3	27 ft	
E	-22.3	30 ft	
F	-32.3	40 ft	
G		40 ft	



REMARKS (Installation, development) :
Used 5 bags of sand, 20 lbs of hydrated bentonite powder, and 2.5 bags of bentonite grout.

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC5-2S

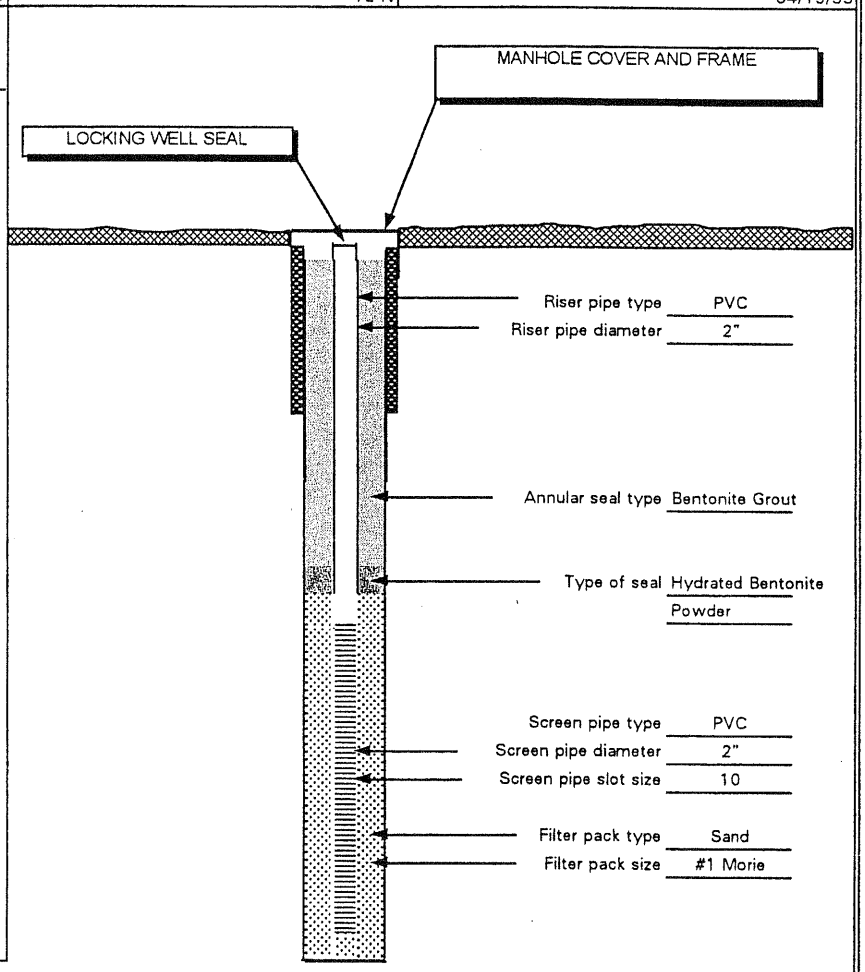
Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 8.53 ft
Date started and completed: 03/23/99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.63 ft
Inspector: Ricardo Colón	*Depth of borehole*: 12 ft	*Date developed*: 04/19/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	8.53	0
B	6.61	1.92 ft
C	8.53	0.5 ft
D	7.53	1.5 ft
E	6.53	2 ft
F	-3.47	12 ft
G		12 ft

GENERALIZED
SOIL DESCRIPTION

0'-12'
Loose, brown, m-f SAND
GLACIAL DEPOSITS



REMARKS :

URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC5-3S

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.72 ft
Date started and completed: 4-15-99 / 4-16-99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 2.22 ft
Inspector: Ricardo Colón	*Depth of borehole*: 12 ft	*Date developed*: 04/26/99

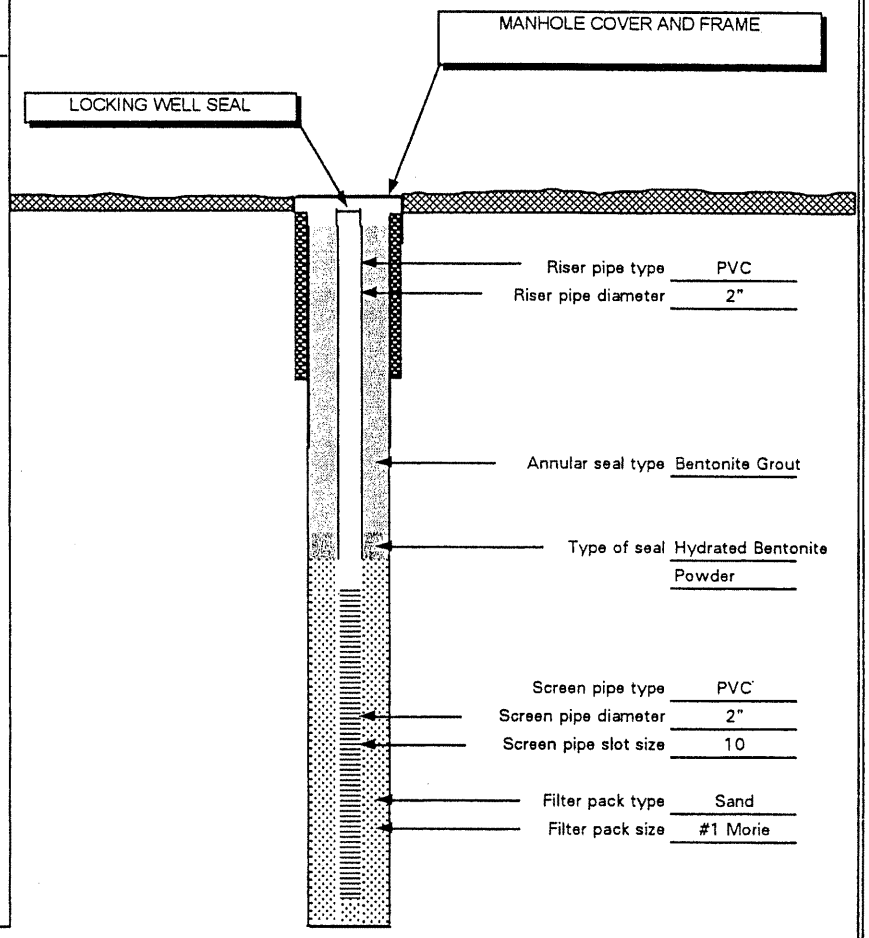
A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of BoreholeScreen

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)
A	7.72	0
B	7.53	0.19 ft
C	7.72	0.5 ft
D	6.72	1.5 ft
E	5.72	2 ft
F	-4.28	12 ft
G		12 ft

GENERALIZED SOIL DESCRIPTION

0' - 4' FILL LAYER

4' - 12' Loose, lt. Brown, m-f SAND, trace c. sand, trace micaceous sand - Poorly Graded Sand (SP)
GLACIAL DEPOSIT



REMARKS :
Used 4.5 bags of sand, 10 lbs of hydrated bentonite powder

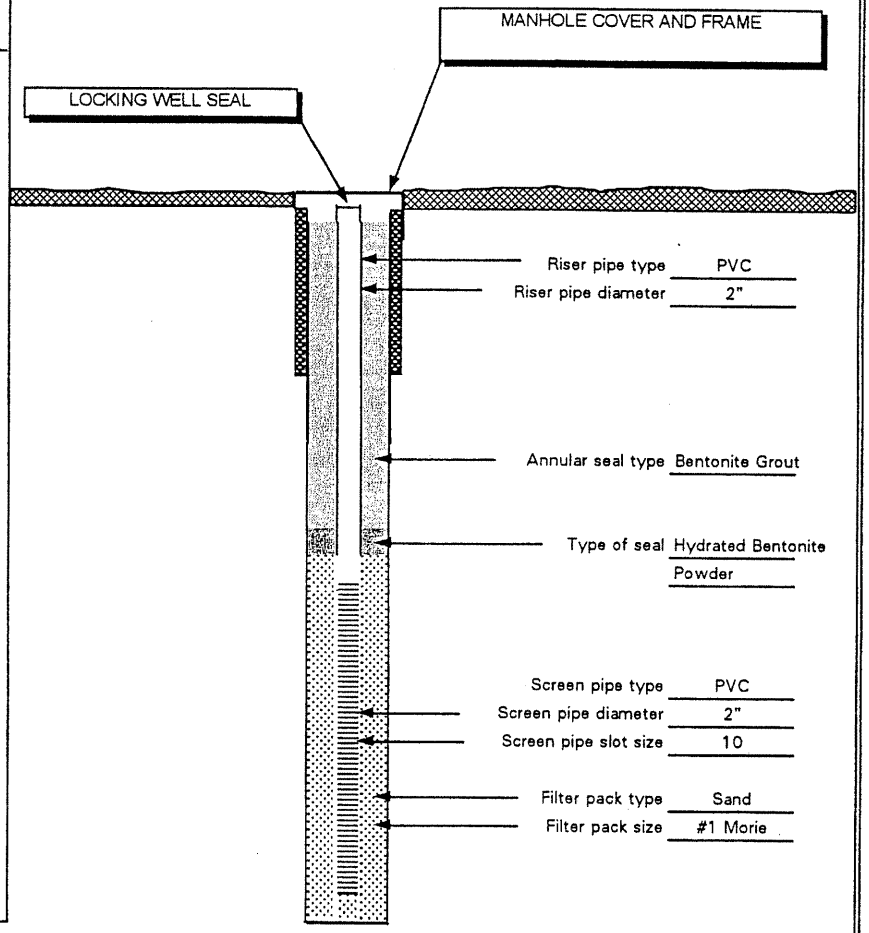
URS Greiner Woodward Clyde
Federal Services

CONSTRUCTION OF WELL / PIEZOMETER NO. WC6-1I

Project name and number: SAEP 47FOR98104	*Drilling company*: Connecticut Test Borings	*Elevation datum*: NGVD - 1929
Project location: Stratford, Connecticut	*Drilling method*: Hollow Stem Auger	*Ground elevation*: 7.09 ft
Date started and completed: 03/24/99	*Diameter of borehole*: 8 inches	*Groundwater elevation*: 3.09 ft
Inspector: Ricardo Colón	*Depth of borehole*: 50 ft	*Date developed*: 04/20/99

A = Top of Protective Casing
B = Top of Riser Pipe
C = Top of Bentonite Seal
D = Top of Sand Pack
E = Top of Screen
F = Bottom of Screen
G = Bottom of Borehole

KEY	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground)	GENERALIZED SOIL DESCRIPTION
A	7.09	0	
B	6.61	0.48 ft	
			0' - 0.5' - Asphalt
			0.5' - 42' - Loose to med. dense, m-f SAND
			GLACIAL DEPOSITS
C	-26.91	34 ft	
D	-29.91	37 ft	
			45' - 50' - GRAVEL
			GLACIAL DEPOSITS
E	-32.91	40 ft	
F	-42.91	50 ft	
G		50 ft	



REMARKS :
Used 5 bags of sand, 1 bag of hydrated bentonite powder, 2 bags of bentonite grout.